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ABSTRACT

The Anchor Test Study provides a method for translating a pupil's score on any one of eight widely used standardized reading tests for Grades 4, 5, and 6 to a corresponding score of any of the other seven tests, as well as furnishing new nationally representative norms for each of the eight tests. In addition, the Study presents new estimates of alternate form reliability for each test, provides estimates of the intercorrelations among the tests, and explores empirically some methodological questions in test-equating. Included in this volume of the Study are equating tables, tables of estimates of equating error, and correlation tables for Grade 4 in vocabulary, reading comprehension, and total reading. Linear and equipercentile equating methods are used. Data are reported for the following seven tests: California Achievement Tests (1970), Comprehensive Tests of Basic Skills (1968), Iowa Test of Basic Skills (1971), Metropolitan Achievement Tests (1970), Sequential Tests of Educational Progress (1969), SRA Achievement Series (1971), and Stanford Achievement Tests (1964). Equating and norming data on the eighth test in the Study, the Gates MacGinitie (1964), are included in volumes 31, 32, and 33 of the Anchor Test Study. (RC)

ED 092603

anchor test study

FINAL REPORT

VOLUME II

EQUATING TABLES, ERROR OF EQUATING, AND CORRELATIONS

Grade 4

December 1972

TM 003 786

EDUCATIONAL TESTING SERVICE
PRINCETON, NEW JERSEY

BERKELEY, CALIFORNIA

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ORGANIZATION OF VOLUME II

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Procedure 1: Equipercentile Method
Procedure 2: Linear Method
Procedure 2: Equipercentile Method
Procedure 3: Linear Method
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Average of Procedures 1 and 2: Linear Method
Average of Procedures 1 and 2: Equipercentile Method

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Procedure 1: Equipercentile Method
Procedure 2: Linear Method
Procedure 2: Equipercentile Method
Procedure 3: Linear Method
Procedure 3: Equipercentile Method
Average of Procedures 1 and 2: Linear Method
Average of Procedures 1 and 2: Equipercentile Method

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Procedure 1: Linear Method
Procedure 1: Equipercentile Method
Procedure 2: Linear Method
Procedure 2: Equipercentile Method
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Average of Procedures 1 and 2: Equipercentile Method

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VOCABULARY

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	SAT	7
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	CTBS	9
	ITBS	10
	MAT	11
	STEP II	12
	SRA	13
	SAT	14
Procedure 2: Linear Method	CAT	15
	CTBS	16
	ITBS	17
	MAT	18
	STEP II	19
	SRA	20
	SAT	21
Procedure 2: Equipercentile Method	CAT	22
	CTBS	23
	ITBS	24
	MAT	25
	STEP II	26
	SRA	27
	SAT	28
Procedure 3: Linear Method	CAT	29
	CTBS	30
	ITBS	31
	MAT	32
	STEP II	33
	SRA	34
	SAT	35
Procedure 3: Equipercentile Method	CAT	36
	CTBS	37
	ITBS	38
	MAT	39
	STEP II	40
	SRA	41
	SAT	42
Average of Procedures 1 and 2 Linear Method	CAT	43
	CTBS	44
	ITBS	45
	MAT	46
	STEP II	47
	SRA	48
	SAT	49
Average of Procedures 1 and 2 Equipercentile Method	CAT	50
	CTBS	51
	ITBS	52
	MAT	53
	STEP II	54
	SRA	55
	SAT	56

TABLE 1. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING VOCABULARY

PROCEDURE 1, LINEAR METHOD

CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
40	42	40	61	31	44	36
39	41	39	60	30	43	35
38	40	38	59	30	42	34
37	39	37	57	29	41	34
36	38	36	56	28	40	33
35	37	35	54	27	39	32
34	36	34	53	27	37	31
33	35	33	52	26	36	30
32	34	32	50	25	35	29
31	33	31	49	25	34	28
30	32	30	48	24	33	27
29	31	29	46	23	32	26
28	30	28	45	23	31	25
27	29	27	43	22	29	24
26	28	26	42	21	28	23
25	27	25	41	20	27	22
24	26	24	39	20	26	21
23	25	23	38	19	25	21
22	24	22	37	18	24	20
21	23	20	35	18	22	19
20	22	19	34	17	21	18
19	21	18	32	16	20	17
18	20	17	31	16	19	16
17	19	16	30	15	18	15
16	18	15	28	14	17	14
15	17	14	27	13	15	13
14	16	13	26	13	14	12
13	15	12	24	12	13	11
12	14	11	23	11	12	10
11	13	10	21	11	11	9
10	12	9	20	10	10	9
9	11	8	19	9	9	8
8	10	7	17	9	7	7
7	9	6	16	8	6	6
6	8	5	15	7	5	5
5	7	4	13	6	4	4
4	6	3	12	6	3	3
3	5	2	10	5	2	2
2	4	1	9	4	0	1
1	3	0	8	4	- 1	0
0	2	- 1	6	3	- 2	- 1

TABLE 2. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR READING VOCABULARY

PROCEDURE 1, LINEAR METHOD

CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
40	38	37	58	29	42	34
39	37	36	57	29	40	33
38	36	35	55	28	39	32
37	35	34	54	27	38	31
36	34	33	53	27	37	30
35	33	32	51	26	36	29
34	32	31	50	25	35	29
33	31	30	49	24	34	28
32	30	29	47	24	32	27
31	29	28	46	23	31	26
30	28	27	44	22	30	25
29	27	26	43	22	29	24
28	26	25	42	21	28	23
27	25	24	40	20	27	22
26	24	23	39	20	26	21
25	23	22	38	19	24	20
24	22	21	36	18	23	19
23	21	20	35	18	22	19
22	20	19	34	17	21	18
21	19	18	32	16	20	17
20	18	17	31	15	19	16
19	17	16	29	15	18	15
18	16	15	28	14	16	14
17	15	14	27	13	15	13
16	14	13	25	13	14	12
15	13	12	24	12	13	11
14	12	11	23	11	12	10
13	11	10	21	11	11	9
12	10	9	20	10	10	8
11	9	8	19	9	9	8
10	8	7	17	9	7	7
9	7	6	16	8	6	6
8	6	5	15	7	5	5
7	5	4	13	6	4	4
6	4	3	12	6	3	3
5	3	2	10	5	2	2
4	2	1	9	4	1	1
3	1	0	8	4	- 1	0
2	0	- 1	6	3	- 2	- 1
1	- 1	- 2	5	2	- 3	- 2
0	- 2	- 3	4	2	- 4	- 3

TABLE 3. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR VOCABULARY

PROCEDURE 1, LINEAR METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
38	38	41	59	30	42	35
37	37	40	58	29	41	34
36	36	39	56	28	40	33
35	35	38	55	28	39	32
34	34	37	54	27	38	31
33	33	36	52	26	37	30
32	32	35	51	26	36	29
31	31	34	50	25	34	28
30	30	33	48	24	33	27
29	29	32	47	24	32	26
28	28	31	45	23	31	26
27	28	30	44	22	30	25
26	27	29	43	21	29	24
25	26	28	41	21	28	23
24	25	27	40	20	26	22
23	24	26	39	19	25	21
22	23	25	37	19	24	20
21	22	24	36	18	23	19
20	21	23	35	17	22	18
19	20	22	33	17	21	17
18	19	21	32	16	20	16
17	18	20	31	15	19	16
16	17	19	29	15	17	15
15	16	18	28	14	16	14
14	15	17	26	13	15	13
13	14	16	25	13	14	12
12	13	15	24	12	13	11
11	12	14	22	11	12	10
10	11	13	21	10	11	9
9	10	12	20	10	9	8
8	9	11	18	9	8	7
7	8	10	17	8	7	6
6	7	9	16	8	6	6
5	6	8	14	7	5	5
4	5	7	13	6	4	4
3	4	6	12	6	3	3
2	3	5	10	5	1	2
1	2	4	9	4	0	1
0	1	3	8	4	-1	0

TABLE 4. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR WORD KNOWLEDGE

PROCEDURE 1, LINEAR METHOD

MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
50	32	34	31	25	35	29
49	31	33	31	25	34	28
48	30	33	30	24	33	27
47	30	32	29	24	32	27
46	29	31	28	23	32	26
45	28	30	28	23	31	25
44	27	30	27	22	30	25
43	27	29	26	22	29	24
42	26	28	26	21	28	23
41	25	28	25	21	27	23
40	25	27	24	20	26	22
39	24	26	23	20	26	21
38	23	25	23	19	25	21
37	22	25	22	19	24	20
36	22	24	21	18	23	19
35	21	23	20	18	22	19
34	20	22	20	17	21	18
33	19	22	19	17	21	17
32	19	21	18	16	20	17
31	18	20	17	16	19	16
30	17	19	17	15	18	15
29	17	19	16	15	17	15
28	16	18	15	14	16	14
27	15	17	14	14	16	13
26	14	17	14	13	15	13
25	14	16	13	13	14	12
24	13	15	12	12	13	11
23	12	14	12	11	12	11
22	12	14	11	11	11	10
21	11	13	10	10	11	9
20	10	12	9	10	10	9
19	9	11	9	9	9	8
18	9	11	8	9	8	7
17	8	10	7	8	7	7
16	7	9	6	8	6	6
15	6	8	6	7	6	5
14	6	8	5	7	5	4
13	5	7	4	6	4	4
12	4	6	3	6	3	3
11	4	6	3	5	2	2
10	3	5	2	5	1	2

TABLE 4. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR WORD KNOWLEDGE

PROCEDURE 1, LINEAR METHOD

MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
9	2	4	1	4	1	1
8	1	3	0	4	0	0
7	1	3	0	3	- 1	0
6	0	2	- 1	3	- 2	- 1
5	- 1	1	- 2	2	- 3	- 2
4	- 2	0	- 3	2	- 4	- 2
3	- 2	0	- 3	1	- 5	- 3
2	- 3	- 1	- 4	1	- 5	- 4
1	- 4	- 2	- 5	0	- 6	- 4
0	- 4	- 3	- 5	0	- 7	- [illegible]

TABLE 5. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR PART 1 (VOCABULARY)

PROCEDURE 1, LINEAR METHOD

STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM C VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
30	39	41	38	60	43	35
29	37	40	37	58	41	34
28	36	38	36	56	40	32
27	34	37	34	54	38	31
26	33	35	33	52	36	30
25	32	34	31	50	35	28
24	30	32	30	48	33	27
23	29	31	28	46	31	26
22	27	30	27	44	30	25
21	26	28	25	42	28	23
20	24	27	24	40	26	22
19	23	25	23	38	25	21
18	22	24	21	36	23	19
17	20	22	20	34	21	18
16	19	21	18	32	20	17
15	17	19	17	30	18	15
14	16	18	15	28	16	14
13	14	17	14	26	15	13
12	13	15	12	24	13	11
11	12	14	11	22	12	10
10	10	12	9	20	10	9
9	9	11	8	18	8	7
8	7	9	7	16	7	6
7	6	8	5	14	5	5
6	4	6	4	12	3	3
5	3	5	2	10	2	2
4	2	4	1	8	0	1
3	0	2	-1	6	-2	-1
2	-1	1	-2	4	-3	-2
1	-3	-1	-4	3	-5	-3
0	-4	-2	-5	1	-7	-5

TABLE 6. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR VOCABULARY

PROCEDURE 1, LINEAR METHOD

SRA (71 ED.) BLUE FORM E VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM C VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
42	38	40	38	59	30	34
41	37	40	37	57	29	34
40	36	39	36	56	28	33
39	35	38	35	55	28	32
38	35	37	34	54	27	31
37	34	36	33	53	27	30
36	33	35	32	51	26	30
35	32	34	32	50	25	29
34	31	33	31	49	25	28
33	30	33	30	48	24	27
32	29	32	29	47	23	26
31	29	31	28	45	23	26
30	28	30	27	44	22	25
29	27	29	26	43	22	24
28	26	28	25	42	21	23
27	25	27	25	41	20	22
26	24	26	24	40	20	22
25	23	26	23	38	[illegible]	21
24	22	25	22	37	19	20
23	22	24	21	36	18	19
22	21	23	20	35	17	18
21	20	22	19	34	17	18
20	19	21	18	32	16	17
19	18	20	18	31	16	16
18	17	19	17	30	15	15
17	16	19	16	29	14	14
16	16	18	15	28	14	14
15	15	17	14	26	13	13
14	14	16	13	25	13	12
13	13	15	12	24	12	11
12	12	14	11	23	11	10
11	11	13	10	22	11	10
10	10	12	10	20	10	9
9	9	12	9	19	10	8
8	9	11	8	18	9	7
7	8	10	7	17	8	6
6	7	9	6	16	[illegible]	6
5	6	8	5	14	7	5
4	5	7	4	13	7	4
3	4	6	3	12	6	3
2	3	5	3	11	5	2

TABLE 6. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR VOCABULARY

PROCEDURE I, LINEAR METHOD

SRA (71 ED.) BLUE FORM E VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
1	3	5	2	10	5	2
0	2	4	1	9	4	1

TABLE 7. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR WORD MEANING

PROCEDURE 1, LINEAR METHOD

SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM C VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
38	42	44	42	64	32	47
37	41	43	41	63	32	45
36	40	42	40	61	31	44
35	39	41	38	60	30	43
34	38	40	37	58	29	42
33	37	39	36	57	29	40
32	35	38	35	55	28	39
31	34	37	34	54	27	38
30	33	36	33	52	26	37
29	32	35	32	51	25	35
28	31	33	31	49	25	34
27	30	32	30	48	24	33
26	29	31	29	46	23	32
25	28	30	27	45	22	30
24	27	29	26	43	22	29
23	26	28	25	42	21	28
22	25	27	24	40	20	27
21	24	26	23	39	19	25
20	23	25	22	37	19	24
19	21	24	21	36	18	23
18	20	23	20	34	17	22
17	19	21	19	33	16	20
16	18	20	18	31	16	19
15	17	19	16	30	15	18
14	16	18	15	28	14	17
13	15	17	14	27	13	15
12	14	16	13	25	13	14
11	13	15	12	24	12	13
10	12	14	11	22	11	12
9	11	13	10	21	10	10
8	10	12	9	19	10	9
7	8	11	8	18	9	8
6	7	9	7	16	8	7
5	6	8	5	15	7	5
4	5	7	4	13	7	4
3	4	6	3	12	6	3
2	3	5	2	10	5	2
1	2	4	1	9	4	0
0	1	3	0	7	4	-1

TABLE 8. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING VOCABULARY

PROCEDURE 1, EQUIPERCENTILE METHOD

CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
40	40	38	50	30	42	38
39	39	37	50	29	42	36
38	38	37	50	28	41	35
37	37	36	49	28	40	34
36	37	35	49	27	39	33
35	36	34	48	27	39	32
34	35	33	48	26	38	31
33	34	33	47	25	37	30
32	34	32	47	25	36	29
31	33	31	46	24	35	28
30	32	30	46	24	34	27
29	31	29	45	23	33	26
28	31	28	45	22	31	25
27	30	27	44	22	30	24
26	29	26	43	21	29	23
25	28	25	43	21	28	22
24	27	24	42	20	26	21
23	26	23	41	19	25	20
22	25	21	40	19	23	19
21	24	20	39	18	22	19
20	23	19	37	18	20	18
19	22	18	36	17	19	17
18	21	17	35	16	18	16
17	20	16	33	16	17	15
16	19	15	31	15	15	14
15	17	14	29	14	14	13
14	16	13	27	13	13	12
13	15	12	24	12	12	11
12	14	11	22	12	12	10
11	13	10	19	11	11	9
10	11	9	17	10	10	9
9	10	9	15	9	9	8
8	9	8	13	8	8	7
7	8	7	12	7	7	6
6	7	6	10	6	7	5
5	6	5	8	5	6	4
4	5	4	7	3	4	3
3	4	3	5	2	3	2
2	3	2	3	2	2	1
1	2	0	1	1	0	0
0	1	0	0	0	0	0

TABLE 9. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR READING VOCABULARY

PROCEDURE 1, EQUIPERCENTILE METHOD

CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM S VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
40	40	38	50	30	42	38
39	39	37	50	29	42	36
38	38	36	50	28	41	35
37	37	35	49	27	40	33
36	35	34	48	27	39	32
35	34	33	48	26	38	31
34	33	32	47	25	36	30
33	31	31	47	24	35	28
32	30	30	46	24	34	27
31	29	29	45	23	32	26
30	27	28	44	22	31	25
29	26	26	44	21	29	24
28	25	25	43	21	28	23
27	24	24	42	20	26	21
26	23	23	41	20	25	20
25	22	21	40	19	23	19
24	21	20	39	18	22	19
23	20	19	38	18	20	18
22	19	18	36	17	19	17
21	18	17	35	16	18	16
20	17	16	34	16	17	15
19	17	15	32	15	16	14
18	16	14	31	15	15	13
17	15	14	29	14	14	13
16	14	13	27	13	13	12
15	13	12	25	12	13	11
14	12	11	22	12	12	11
13	11	11	20	11	11	10
12	11	10	18	10	10	9
11	10	9	16	9	10	8
10	9	8	15	8	9	7
9	8	8	13	8	8	7
8	7	7	12	7	8	6
7	6	6	10	6	7	5
6	5	5	9	5	6	4
5	4	5	7	4	5	3
4	4	3	6	3	4	2
3	2	2	3	2	2	1
2	1	0	1	1	0	0
1	0	0	0	0	0	0
0	0	0	0	0	0	0

TABLE 10. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR VOCABULARY

PROCEDURE 1, EQUIPERCENTILE METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
38	40	40	50	30	42	38
37	39	39	50	29	41	36
36	37	38	49	28	40	34
35	36	37	49	27	39	33
34	35	36	48	26	38	31
33	34	35	48	26	37	30
32	32	34	47	25	36	29
31	31	33	46	24	35	28
30	30	32	46	24	34	27
29	29	31	45	23	33	26
28	28	30	45	22	31	25
27	27	30	44	22	30	24
26	26	29	43	21	29	23
25	25	28	43	21	28	22
24	24	27	42	20	27	22
23	23	26	41	20	25	21
22	23	26	40	19	24	20
21	22	25	40	19	23	19
20	21	24	39	18	22	19
19	20	23	38	18	20	18
18	19	22	36	17	19	17
17	18	21	35	16	18	16
16	17	20	33	16	17	15
15	16	19	32	15	16	14
14	15	18	30	14	15	13
13	14	16	27	13	13	12
12	13	15	24	12	12	11
11	12	14	21	11	11	10
10	11	12	19	10	10	9
9	10	11	16	9	10	8
8	8	10	14	8	9	7
7	7	8	12	7	8	6
6	6	7	10	6	7	5
5	5	6	8	4	5	4
4	4	5	7	3	4	3
3	3	4	5	3	3	2
2	2	3	4	2	2	1
1	2	3	2	1	1	1
0	1	2	0	1	0	0

TABLE 11. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR WORD KNOWLEDGE

PROCEDURE 1, EQUIPERCENTILE METHOD

MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM C VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
50	39	39	37	29	41	36
49	37	37	36	28	40	34
48	35	36	34	26	38	31
47	32	34	32	25	36	29
46	30	32	30	24	34	27
45	29	31	29	23	32	25
44	27	30	27	22	30	24
43	26	28	26	21	29	23
42	25	27	24	20	27	22
41	23	26	23	20	25	21
40	22	25	22	19	24	20
39	21	24	20	18	22	19
38	20	24	20	18	21	18
37	20	23	19	17	20	17
36	19	22	18	17	19	17
35	18	21	17	16	18	16
34	18	20	17	16	17	15
33	17	19	16	16	16	15
32	16	19	15	15	16	14
31	16	18	15	15	15	14
30	15	18	14	14	15	13
29	15	17	14	14	14	13
28	15	17	13	14	14	12
27	14	16	13	13	13	12
26	14	16	13	13	13	12
25	13	15	12	13	13	11
24	13	15	12	12	12	11
23	13	14	12	12	12	11
22	12	14	11	12	12	10
21	12	13	11	11	11	10
20	11	13	11	11	11	10
19	11	12	10	11	11	9
18	11	12	10	10	10	9
17	10	11	9	10	10	9
16	10	11	9	9	10	8
15	9	10	9	9	9	8
14	8	10	8	8	9	7
13	8	9	8	7	8	6
12	7	8	7	7	8	6
11	7	8	7	6	7	5
10	6	7	6	6	7	5

TABLE 11. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR WORD KNOWLEDGE

PROCEDURE 1, EQUIPERCENTILE METHOD

MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM C VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
9	6	6	6	5	6	4
8	5	6	5	4	5	4
7	4	5	4	4	5	3
6	4	4	4	3	4	2
5	3	4	3	3	3	2
4	3	3	2	2	3	2
3	2	3	2	2	2	1
2	2	3	1	1	1	1
1	1	2	0	1	1	0
0	1	2	0	1	0	0

TABLE 12. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR PART 1 (VOCABULARY)

PROCEDURE 1, EQUIPERCENTILE METHOD

STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM C VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
30	40	40	38	50	42	38
29	39	39	37	50	41	36
28	37	38	36	49	40	34
27	36	37	35	49	39	33
26	34	35	34	48	38	31
25	32	34	32	47	36	29
24	31	33	31	46	35	28
23	29	31	29	45	33	26
22	27	30	27	44	31	24
21	26	28	26	43	29	23
20	24	27	24	42	26	21
19	22	25	22	40	24	20
18	21	24	20	39	22	18
17	19	22	18	37	19	17
16	18	20	17	34	17	15
15	16	19	15	32	16	14
14	15	17	14	29	14	13
13	14	16	13	26	13	12
12	13	15	12	23	12	11
11	11	13	11	20	11	10
10	10	12	10	18	10	9
9	10	11	9	16	9	8
8	8	10	8	14	9	7
7	7	8	7	12	8	6
6	6	7	6	11	7	5
5	6	6	6	9	6	4
4	5	5	5	8	5	3
3	4	4	4	6	4	3
2	2	3	2	4	2	1
1	1	2	0	1	0	0
0	0	1	0	0	0	0

TABLE 13. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR VOCABULARY

PROCEDURE 1, EQUIPERCENTILE METHOD

SRA (71 ED.) BLUE FORM E VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM C VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
42	40	40	38	50	30	37
41	38	38	37	50	29	35
40	37	37	36	49	28	34
39	36	36	35	49	27	32
38	34	35	34	48	26	31
37	33	35	33	47	26	30
36	32	34	32	47	25	29
35	31	33	31	47	24	28
34	30	32	30	46	24	27
33	29	32	29	46	23	26
32	29	31	29	45	23	26
31	28	30	28	45	22	25
30	27	29	27	44	22	24
29	26	29	26	43	21	23
28	25	28	25	43	21	23
27	25	27	24	42	20	22
26	24	27	24	42	20	21
25	23	26	23	41	20	21
24	23	26	22	40	19	20
23	22	25	21	40	19	19
22	21	24	20	39	18	19
21	20	24	20	38	18	18
20	20	23	19	37	17	17
19	19	22	18	36	17	17
18	18	21	17	35	16	16
17	17	20	16	34	16	15
16	17	19	15	32	15	14
15	16	18	15	31	15	14
14	15	17	14	29	14	13
13	14	16	13	26	13	12
12	13	14	12	23	12	11
11	11	13	11	20	11	10
10	10	12	10	17	10	9
9	9	10	9	15	9	8
8	8	9	7	13	7	6
7	7	8	7	11	6	5
6	6	6	6	9	5	4
5	5	5	5	7	4	3
4	4	4	4	6	3	3
3	3	4	3	5	2	2
2	2	3	2	3	2	1

TABLE 13. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR VOCABULARY

PROCEDURE 1, EQUIPERCENTILE METHOD

SRA (71 ED.) BLUE FORM E VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM C VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
1	2	2	1	2	1	1
0	1	2	0	0	1	0

TABLE 14. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR WORD MEANING

PROCEDURE 1, EQUIPERCENTILE METHOD

SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
38	40	40	38	50	30	42
37	40	40	38	50	30	42
36	39	39	37	50	29	42
35	38	38	37	50	28	41
34	37	38	36	49	28	40
33	36	37	35	49	27	40
32	35	36	35	48	27	39
31	34	35	34	48	26	38
30	33	34	33	47	26	37
29	32	34	32	47	25	36
28	31	33	31	46	24	35
27	30	32	30	46	24	34
26	29	31	29	45	23	33
25	28	30	28	45	22	31
24	27	29	27	44	22	30
23	26	29	26	43	21	29
22	25	28	25	42	21	27
21	24	27	23	41	20	26
20	23	26	22	40	19	24
19	22	25	21	39	18	22
18	20	23	19	38	18	21
17	19	22	18	37	17	20
16	18	21	17	35	17	18
15	17	20	16	34	16	17
14	16	19	15	32	15	16
13	15	17	14	30	14	14
12	14	16	13	27	13	13
11	13	15	12	24	12	12
10	12	13	11	21	11	11
9	11	12	10	18	10	10
8	10	11	9	16	9	9
7	8	10	8	14	8	9
6	7	8	7	12	7	8
5	6	7	6	10	6	7
4	5	6	5	9	5	6
3	4	5	4	7	4	5
2	3	4	3	5	3	3
1	2	3	2	3	2	2
0	1	2	0	1	1	0

TABLE 15. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING VOCABULARY

PROCEDURE 2, LINEAR METHOD

CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
40	42	39	60	31	44	36
39	41	38	59	30	43	35
38	40	37	58	29	42	34
37	39	36	56	29	41	33
36	38	35	55	28	39	32
35	37	34	54	27	38	31
34	36	33	52	26	37	30
33	35	32	51	26	36	29
32	34	31	50	25	35	28
31	33	30	48	24	34	27
30	32	29	47	24	33	27
29	31	28	46	23	31	26
28	30	27	44	22	30	25
27	29	26	43	21	29	24
26	28	25	41	21	28	23
25	27	24	40	20	27	22
24	26	23	39	19	26	21
23	25	22	37	19	25	20
22	24	21	36	18	23	19
21	23	20	35	17	22	18
20	22	19	33	17	21	18
19	21	18	32	16	20	17
18	20	17	31	15	19	16
17	19	16	29	14	18	15
16	18	15	28	14	17	14
15	17	14	27	13	15	13
14	16	13	25	12	14	12
13	15	12	24	12	13	11
12	14	11	23	11	12	10
11	13	10	21	10	11	9
10	12	9	20	9	10	8
9	11	8	19	9	8	8
8	10	7	17	8	7	7
7	9	6	16	7	6	6
6	8	5	14	7	5	5
5	7	4	13	6	4	4
4	6	3	12	5	3	3
3	5	2	10	5	2	2
2	4	1	9	4	0	1
1	3	0	8	3	-1	0
0	2	-1	6	2	-2	-1

TABLE 16. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR READING VOCABULARY

PROCEDURE 2, LINEAR METHOD

CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
40	38	37	58	30	42	34
39	37	36	57	29	41	33
38	36	35	56	28	40	32
37	35	34	54	27	39	31
36	34	33	53	27	38	31
35	33	32	51	26	36	30
34	32	31	50	25	35	29
33	31	30	49	25	34	28
32	30	29	47	24	33	27
31	29	28	46	23	32	26
30	28	27	45	22	31	25
29	27	26	43	22	30	24
28	26	25	42	21	28	23
27	25	24	41	20	27	22
26	24	23	39	20	26	21
25	23	22	38	19	25	20
24	22	21	36	18	24	20
23	21	20	35	17	23	19
22	20	19	34	17	21	18
21	19	18	32	16	20	17
20	18	17	31	15	19	16
19	17	16	30	15	18	15
18	16	15	28	14	17	14
17	15	14	27	13	16	13
16	14	13	26	12	14	12
15	13	12	24	12	13	11
14	12	11	23	11	12	10
13	11	10	22	10	11	10
12	10	9	20	10	10	9
11	9	8	19	9	9	8
10	8	7	17	8	8	7
9	7	6	16	7	6	6
8	6	5	15	7	5	5
7	5	4	13	6	4	4
6	4	3	12	5	3	3
5	3	2	11	5	2	2
4	2	1	9	4	1	1
3	1	0	8	3	-1	0
2	0	-1	7	2	-2	0
1	-1	-2	5	2	-3	-1
0	-2	-3	4	1	-4	-2

TABLE 17. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR VOCABULARY

PROCEDURE 2, LINEAR METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM C VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART I (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
38	39	41	59	30	43	35
37	38	40	58	29	42	34
36	37	39	56	29	41	33
35	36	38	55	28	40	32
34	35	37	54	27	38	31
33	34	36	52	27	37	30
32	33	35	51	26	36	29
31	32	34	50	25	35	28
30	31	33	48	24	34	28
29	30	32	47	24	33	27
28	29	31	46	23	32	26
27	28	30	44	22	30	25
26	27	29	43	22	29	24
25	26	28	42	21	28	23
24	25	27	40	20	27	22
23	24	26	39	19	26	21
22	23	25	38	19	25	20
21	22	24	36	18	24	19
20	21	22	35	17	22	19
19	20	22	34	17	21	18
18	19	21	32	16	20	17
17	18	20	31	15	19	16
16	17	19	30	15	18	15
15	16	18	28	14	17	14
14	15	17	27	13	16	13
13	14	16	26	12	15	12
12	13	15	24	12	13	11
11	12	14	23	11	12	11
10	11	13	22	10	11	10
9	10	12	20	10	10	9
8	9	11	19	9	9	8
7	8	10	18	8	8	7
6	7	9	16	8	7	6
5	6	8	15	7	5	5
4	5	7	14	6	4	4
3	4	6	12	5	3	3
2	3	5	11	5	2	2
1	2	4	10	4	1	2
0	1	3	8	3	0	1

TABLE 18. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR WORD KNOWLEDGE

PROCEDURE 2, LINEAR METHOD

MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
50	32	34	31	25	35	29
49	32	33	31	25	34	28
48	31	33	30	24	34	27
47	30	32	29	24	33	27
46	29	31	28	23	32	26
45	29	30	28	23	31	25
44	28	30	27	22	30	25
43	27	29	26	22	29	24
42	26	28	25	21	28	23
41	26	27	25	21	28	23
40	25	27	24	20	27	22
39	24	26	23	19	26	21
38	24	25	22	19	25	21
37	23	24	22	18	24	20
36	22	24	21	18	23	19
35	21	23	20	17	23	19
34	21	22	19	17	22	18
33	20	22	19	16	21	17
32	19	21	18	16	20	17
31	18	20	17	15	19	16
30	18	19	16	15	18	15
29	17	19	16	14	17	15
28	16	18	15	14	17	14
27	15	17	14	13	16	13
26	15	16	13	13	15	13
25	14	16	13	12	14	12
24	13	15	12	12	13	11
23	12	14	11	11	12	11
22	12	13	10	11	11	10
21	11	13	10	10	11	9
20	10	12	9	10	10	9
19	9	11	8	9	9	8
18	9	10	7	8	8	7
17	8	10	7	8	7	7
16	7	9	6	7	6	6
15	6	8	5	7	6	5
14	6	8	4	6	5	5
13	5	7	4	6	4	4
12	4	6	3	5	3	3
11	3	5	2	5	2	3
10	3	5	1	4	1	2

TABLE 18. ANCHOR TEST EQUATING STUDY: GRADE .

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR WORD KNOWLEDGE

PROCEDURE 2, LINEAR METHOD

MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
9	2	4	1	4	0	1
8	1	3	0	3	0	1
7	1	2	- 1	3	- 1	0
6	0	2	- 2	2	- 2	- 1
5	- 1	1	- 2	2	- 3	- 1
4	- 2	0	- 3	1	- 4	- 2
3	- 2	- 1	- 4	1	- 5	- 3
2	- 3	- 1	- 5	0	- 6	- 3
1	- 4	- 2	- 5	0	- 6	- 4
0	- 5	- 3	- 6	- 1	- 7	- 5

TABLE 19. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR PART 1 (VOCABULARY)

PROCEDURE 2, LINEAR METHOD

STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
30	39	41	38	59	43	35
29	38	39	37	57	41	34
28	36	38	35	55	40	32
27	35	37	34	53	38	31
26	34	35	32	52	37	30
25	32	34	31	50	35	28
24	31	32	30	48	33	27
23	29	31	28	46	32	26
22	28	30	27	44	30	25
21	26	28	25	42	28	23
20	25	27	24	40	27	22
19	24	25	22	38	25	21
18	22	24	21	36	24	19
17	21	23	20	34	22	18
16	19	21	18	32	20	17
15	18	20	17	31	19	16
14	17	18	15	29	17	14
13	15	17	14	27	15	13
12	14	15	12	25	14	12
11	12	14	11	23	12	10
10	11	13	10	21	11	9
9	9	11	8	19	9	8
8	8	10	7	17	7	7
7	7	8	5	15	6	5
6	5	7	4	13	4	4
5	4	6	2	11	2	3
4	2	4	1	10	1	2
3	1	3	0	8	-1	0
2	0	1	-2	6	-2	-1
1	-2	0	-3	4	-4	-2
0	-3	-1	-5	2	-6	-4

TABLE 20. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR VOCABULARY

PROCEDURE 2, LINEAR METHOD

SRA (71 ED.) BLUE FORM E VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM C VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
42	38	40	37	58	29	34
41	37	39	36	57	29	33
40	37	38	35	56	28	32
39	36	37	35	55	28	32
38	35	36	34	53	27	31
37	34	36	33	52	26	30
36	33	35	32	51	26	29
35	32	34	31	50	25	28
34	31	33	30	49	25	28
33	30	32	29	47	24	27
32	30	31	28	46	23	26
31	29	30	28	45	23	25
30	28	30	27	44	22	25
29	27	29	26	43	21	24
28	26	28	25	42	21	23
27	25	27	24	40	20	22
26	24	26	23	39	20	21
25	23	25	22	38	19	21
24	23	24	21	37	18	20
23	22	23	21	36	18	19
22	21	23	20	35	17	18
21	20	22	19	33	16	17
20	19	21	18	32	16	17
19	18	20	17	31	15	16
18	17	19	16	30	15	15
17	17	18	15	29	14	14
16	16	17	14	27	13	14
15	15	17	14	26	13	13
14	14	16	13	25	12	12
13	13	15	12	24	12	11
12	12	14	11	23	11	10
11	11	13	10	22	10	10
10	10	12	9	20	10	9
9	10	11	8	19	9	8
8	9	10	7	18	8	7
7	8	10	6	17	8	6
6	7	9	6	16	7	6
5	6	8	5	15	7	5
4	5	7	4	13	6	4
3	4	6	3	12	5	3
2	3	5	2	11	5	2

TABLE 20. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR VOCABULARY

PROCEDURE 2, LINEAR METHOD

SRA (71 ED.) BLUE FORM E VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
1	3	4	1	10	4	2
0	2	4	0	9	4	1

TABLE 21. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR WORD MEANING

PROCEDURE 2, LINEAR METHOD

SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
38	43	44	42	64	33	47
37	42	43	41	63	32	46
36	41	42	40	61	31	45
35	39	41	38	60	30	43
34	38	40	37	58	29	42
33	37	39	36	57	29	41
32	36	38	35	55	28	40
31	35	37	34	54	27	38
30	34	36	33	52	26	37
29	33	34	32	51	26	36
28	32	33	31	49	25	34
27	31	32	29	48	24	33
26	30	31	28	46	23	32
25	28	30	27	45	22	31
24	27	29	26	43	22	29
23	26	28	25	42	21	28
22	25	27	24	40	20	27
21	24	26	23	39	19	26
20	23	25	22	37	19	24
19	22	23	21	36	18	23
18	21	22	19	34	17	22
17	20	21	18	33	16	21
16	18	20	17	31	15	19
15	17	19	16	30	15	18
14	16	18	15	28	14	17
13	15	17	14	27	13	15
12	14	16	13	25	12	14
11	13	15	12	24	11	13
10	12	14	11	22	11	12
9	11	12	9	21	10	10
8	10	11	8	19	9	9
7	8	10	7	18	8	8
6	7	9	6	16	8	7
5	6	8	5	15	7	5
4	5	7	4	13	6	4
3	4	6	3	12	5	3
2	3	5	2	10	4	1
1	2	4	0	9	4	0
0	1	3	-1	7	3	-1

TABLE 22. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING VOCABULARY

PROCEDURE 2, EQUIPERCENTILE METHOD

CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
40	40	38	50	30	42	38
39	39	37	50	29	42	36
38	38	36	49	28	41	35
37	37	36	49	28	40	34
36	36	35	48	27	39	32
35	36	34	48	26	39	31
34	35	33	47	26	38	30
33	34	32	47	25	37	30
32	33	31	46	25	36	29
31	33	30	46	24	35	28
30	32	29	45	24	34	27
29	31	29	45	23	33	26
28	30	27	44	22	32	25
27	29	26	44	22	30	24
26	28	25	43	21	29	23
25	27	24	42	20	27	22
24	26	23	41	20	26	21
23	25	22	40	19	24	20
22	25	21	39	18	23	19
21	23	20	38	18	21	18
20	22	18	37	17	20	17
19	21	17	35	16	19	16
18	20	16	34	16	17	15
17	19	15	32	15	16	15
16	18	14	30	14	15	14
15	17	13	28	13	14	13
14	16	12	26	12	13	12
13	15	12	23	11	12	11
12	14	11	21	11	12	10
11	13	10	19	10	11	10
10	12	9	17	9	10	9
9	10	9	15	8	9	8
8	9	8	14	7	8	7
7	8	7	12	7	8	6
6	7	6	10	5	7	5
5	6	5	9	5	6	4
4	5	4	7	4	5	3
3	4	3	6	3	4	2
2	3	2	4	2	3	2
1	1	1	3	2	1	1
0	0	0	1	1	0	0

TABLE 23. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR READING VOCABULARY

PROCEDURE 2, EQUIPERCENTILE METHOD

CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
40	40	38	50	30	42	38
39	39	37	50	29	42	36
38	38	36	49	28	41	35
37	37	35	49	27	40	33
36	[illegible]	34	48	27	39	32
35	34	33	48	26	38	31
34	33	32	[illegible]	25	37	30
33	32	31	46	24	35	28
32	30	30	46	24	34	27
31	29	29	45	23	33	26
30	28	27	44	22	31	25
29	27	26	44	22	30	24
28	26	25	43	21	28	23
27	25	24	42	20	27	22
26	24	23	41	20	25	21
25	23	21	40	19	24	20
24	22	20	39	18	22	19
23	21	19	38	18	21	18
22	20	18	36	17	20	17
21	19	17	35	16	18	16
20	18	16	33	16	17	15
19	17	15	32	15	16	14
18	16	14	30	14	15	14
17	15	13	28	13	14	13
16	14	13	27	13	13	12
15	13	12	25	12	13	11
14	13	11	22	11	12	11
13	12	11	20	10	11	10
12	11	10	18	9	10	9
11	10	9	16	9	10	9
10	9	8	15	8	9	8
9	8	7	13	7	8	7
8	7	7	12	6	7	6
7	6	6	10	5	7	5
6	5	5	9	5	6	4
5	4	4	7	4	5	3
4	3	3	6	3	4	3
3	3	2	5	3	3	2
2	2	2	4	2	2	1
1	1	1	2	1	1	1
0	0	0	1	1	0	0

TABLE 24. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR VOCABULARY

PROCEDURE 2, EQUIPERCENTILE METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
38	40	40	50	30	42	38
37	39	39	50	29	41	36
36	38	38	49	28	41	34
35	36	37	49	27	40	33
34	35	36	48	26	39	32
33	34	35	47	26	38	31
32	33	34	,7	25	37	29
31	32	33	46	24	36	28
30	31	32	46	24	34	27
29	30	31	45	23	33	26
28	29	31	45	23	32	25
27	28	30	44	22	31	24
26	27	29	44	22	30	24
25	26	28	43	21	28	23
24	25	27	42	20	27	22
23	24	26	41	20	26	21
22	23	26	41	19	25	20
21	22	25	40	19	23	19
20	21	24	39	18	22	19
19	21	23	38	18	21	18
18	20	22	36	17	20	17
17	19	21	35	16	18	16
16	18	20	34	16	17	15
15	17	19	32	15	16	14
14	16	18	30	14	15	14
13	15	17	28	13	14	13
12	14	15	25	12	13	12
11	12	14	22	11	12	11
10	11	12	19	10	11	10
9	10	11	16	9	10	9
8	8	10	14	8	9	7
7	7	9	12	7	8	6
6	6	7	11	6	7	5
5	5	6	9	5	6	4
4	4	5	7	4	5	3
3	3	4	6	3	4	2
2	2	3	4	2	3	2
1	1	1	3	2	1	1
0	0	0	1	1	0	0

TABLE 25. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR WORD KNOWLEDGE

PROCEDURE 2, EQUIPERCENTILE METHOD

MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
50	39	39	37	29	42	36
49	37	37	36	28	40	34
48	35	36	34	26	39	32
47	33	34	32	25	37	30
46	31	33	31	24	35	28
45	29	31	29	23	33	26
44	27	30	27	22	31	24
43	26	28	25	21	29	23
42	25	27	24	20	27	22
41	24	26	23	20	25	21
40	23	25	21	19	24	20
39	22	24	20	18	22	19
38	21	23	19	18	21	18
37	20	22	19	17	20	17
36	20	22	18	17	19	17
35	19	21	17	16	18	16
34	18	20	16	16	18	16
33	18	20	16	15	17	15
32	17	19	15	15	16	15
31	16	19	15	14	16	14
30	16	18	14	14	15	14
29	15	17	14	14	14	13
28	15	17	13	13	14	13
27	15	16	13	13	14	12
26	14	16	12	12	13	12
25	14	15	12	12	13	12
24	13	15	12	12	12	11
23	13	14	11	11	12	11
22	12	14	11	11	12	11
21	12	13	11	11	11	10
20	11	13	10	10	11	10
19	11	12	10	10	11	10
18	10	12	10	9	10	9
17	10	11	9	9	10	9
16	9	11	9	8	10	8
15	9	10	8	8	9	8
14	8	10	8	7	9	7
13	8	9	7	7	8	7
12	7	8	7	6	8	6
11	6	8	6	6	7	6
10	6	7	6	5	6	5

TABLE 25. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR WORD KNOWLEDGE

PROCEDURE 2, EQUIPERCENTILE METHOD

MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
9	5	6	5	5	6	4
8	5	5	4	4	5	4
7	4	5	4	4	5	3
6	3	4	3	3	4	3
5	3	3	3	3	3	2
4	2	2	2	2	2	1
3	1	2	1	2	2	1
2	1	1	1	1	1	0
1	0	0	0	1	0	0
0	0	0	0	0	0	0

TABLE 26. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR PART 1 (VOCABULARY)

PROCEDURE 2, EQUIPERCENTILE METHOD

STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM C VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
30	40	40	38	50	42	38
29	39	39	37	50	42	36
28	38	38	36	49	41	34
27	36	37	35	48	40	33
26	35	35	34	48	38	31
25	33	34	32	47	37	29
24	31	33	30	46	35	28
23	29	31	29	45	33	26
22	27	30	27	44	31	24
21	26	28	25	43	29	23
20	24	27	23	42	26	21
19	23	25	22	40	24	20
18	21	24	20	39	22	19
17	20	22	18	37	20	17
16	19	21	17	35	18	16
15	17	19	15	32	16	15
14	16	18	14	30	15	14
13	15	17	13	28	14	13
12	14	15	12	25	13	12
11	13	14	11	22	12	11
10	11	13	10	20	11	10
9	10	12	9	17	10	9
8	9	10	9	15	9	8
7	8	9	7	13	8	7
6	7	8	6	11	7	6
5	6	7	5	10	6	5
4	4	5	4	7	5	3
3	3	4	3	5	4	2
2	2	2	2	4	2	1
1	0	0	0	2	0	0
0	0	0	0	0	0	0

TABLE 27. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR VOCABULARY

PROCEDURE 2, EQUIPERCENTILE METHOD

SRA (71 ED.) BLUE FORM E VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
42	40	40	38	50	30	37
41	38	38	37	50	28	35
40	37	37	35	49	27	33
39	36	36	34	48	27	32
38	35	35	33	48	26	31
37	33	34	33	47	25	30
36	32	34	32	47	25	29
35	31	33	31	46	24	28
34	30	32	30	46	24	27
33	29	31	29	45	23	26
32	28	30	28	45	23	25
31	28	30	27	44	22	24
30	27	29	26	44	22	24
29	26	28	25	43	21	23
28	26	28	25	43	21	23
27	25	27	24	42	20	22
26	24	27	23	42	20	21
25	24	26	22	41	19	21
24	23	25	22	40	19	20
23	22	25	21	40	19	19
22	22	24	20	39	18	19
21	21	23	19	38	18	18
20	20	22	18	37	17	17
19	19	22	18	36	17	17
18	19	21	17	35	16	16
17	18	20	16	33	15	15
16	17	19	15	32	15	14
15	16	18	14	30	14	14
14	15	17	13	28	13	13
13	14	16	12	26	12	12
12	13	14	11	23	11	11
11	11	13	10	20	10	10
10	10	11	9	17	9	9
9	9	10	8	15	8	8
8	8	9	7	13	7	7
7	6	8	6	11	6	6
6	5	6	5	9	5	4
5	4	5	4	8	4	3
4	3	4	3	6	3	3
3	3	3	2	5	3	2
2	2	2	2	4	2	1

TABLE 27. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR VOCABULARY

PROCEDURE 2, EQUIPERCENTILE METHOD

SRA (71 ED.) BLUE FORM E VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
1	1	1	1	2	1	1
0	0	0	0	1	1	0

TABLE 28. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR WORD MEANING

PROCEDURE 2, EQUIPERCENTILE METHOD

SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART I (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
38	40	40	38	50	30	42
37	40	40	38	50	30	42
36	39	39	37	50	29	42
35	38	38	37	50	28	41
34	37	38	36	49	28	41
33	37	37	35	49	27	40
32	36	36	34	48	27	39
31	35	35	34	48	26	38
30	34	34	33	47	25	37
29	33	34	32	47	25	36
28	31	33	31	46	24	35
27	30	32	30	46	24	34
26	29	31	29	45	23	33
25	28	30	28	44	23	32
24	27	29	27	44	22	30
23	26	28	25	43	21	29
22	25	27	24	42	20	27
21	24	26	23	41	20	26
20	23	25	22	40	19	24
19	22	24	21	39	18	23
18	21	23	19	38	18	21
17	20	22	18	37	17	20
16	19	21	17	35	16	18
15	18	20	16	33	15	17
14	16	19	15	31	14	16
13	15	17	13	29	13	14
12	14	16	13	26	13	13
11	13	15	12	23	11	12
10	12	13	11	20	10	11
9	10	12	10	18	9	10
8	9	10	9	15	8	9
7	8	9	8	14	7	8
6	7	8	7	12	6	7
5	6	7	6	10	5	7
4	5	6	5	9	5	6
3	4	5	4	7	4	5
2	3	3	3	5	3	3
1	1	2	1	3	2	2
0	0	0	0	1	1	0

TABLE 29. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING VOCABULARY

PROCEDURE 3, LINEAR METHOD

CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
40	41	39	60	31	43	35
39	40	38	58	30	42	34
38	39	37	57	29	41	34
37	38	36	55	29	40	33
36	37	35	54	28	39	32
35	36	34	53	27	38	31
34	35	33	51	27	36	30
33	34	32	50	26	35	29
32	33	31	49	25	34	28
31	32	30	47	25	33	27
30	31	29	46	24	32	26
29	30	28	45	23	30	25
28	29	27	43	[illegible]	29	24
27	28	26	42	22	28	23
26	27	25	41	21	27	22
25	26	24	39	20	26	21
24	25	23	38	20	24	21
23	24	22	37	19	23	20
22	23	21	35	18	22	19
21	22	20	34	18	21	18
20	21	19	32	17	20	17
19	20	18	31	16	19	16
18	19	17	30	15	17	15
17	18	16	28	15	16	14
16	17	15	27	14	15	13
15	16	14	26	13	14	12
14	15	13	24	13	13	11
13	14	12	23	12	11	10
12	13	11	22	11	10	9
11	12	10	20	10	9	8
10	11	9	19	10	8	8
9	10	8	18	9	7	7
8	9	7	16	8	5	6
7	8	6	15	8	4	5
6	7	5	14	7	3	4
5	6	4	12	6	2	3
4	5	3	11	6	1	2
3	4	2	9	5	0	1
2	3	1	8	4	- 2	0
1	2	0	7	3	- 3	- 1
0	1	- 1	5	3	- 4	- 2

TABLE 30. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR READING VOCABULARY

PROCEDURE 3, LINEAR METHOD

CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
40	39	38	58	30	42	34
39	38	37	57	29	41	33
38	37	36	55	29	40	32
37	36	35	54	28	39	32
36	35	34	53	27	37	31
35	34	33	51	27	36	30
34	33	32	50	26	35	29
33	32	31	49	25	34	28
32	31	30	47	24	33	27
31	30	29	46	24	31	26
30	29	28	45	23	30	25
29	28	27	43	22	29	24
28	27	26	42	22	28	23
27	26	25	40	21	27	22
26	25	24	39	20	26	21
25	24	23	38	20	24	21
24	23	22	36	19	23	20
23	22	21	35	18	22	19
22	21	20	34	18	21	18
21	20	19	32	17	20	17
20	19	18	31	16	19	16
19	18	17	30	15	17	15
18	17	16	28	15	16	14
17	16	15	27	14	15	13
16	15	14	26	13	14	12
15	14	13	24	13	13	11
14	13	12	23	12	11	10
13	12	11	22	11	10	9
12	11	10	20	11	9	9
11	10	9	19	10	8	8
10	9	8	18	9	7	7
9	8	7	16	8	6	6
8	7	6	15	8	4	5
7	6	5	14	7	3	4
6	5	4	12	6	2	3
5	4	3	11	6	1	2
4	3	2	10	5	0	1
3	2	1	8	4	- 1	0
2	1	0	7	4	- 3	- 1
1	0	- 1	6	3	- 4	- 2
0	- 1	- 2	4	2	- 5	- 2

TABLE 31. ANCHOR TEST EQUATING STUDY: CRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR VOCABULARY

PROCEDURE 3, LINEAR METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM C VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
38	39	40	58	30	42	34
37	38	39	57	29	41	33
36	37	38	55	29	40	32
35	36	37	54	28	38	32
34	35	36	53	27	37	31
33	34	35	51	27	36	30
32	33	34	50	26	35	29
31	32	33	49	25	34	28
30	31	32	47	24	33	27
29	30	31	46	24	31	26
28	29	30	45	23	30	25
27	28	29	43	22	29	24
26	27	28	42	22	28	23
25	26	27	41	21	27	22
24	25	26	39	20	26	22
23	24	25	38	20	24	21
22	23	24	37	19	23	20
21	22	23	35	18	22	19
20	21	22	34	18	21	18
19	20	21	33	17	20	17
18	19	20	31	16	19	16
17	18	19	30	16	17	15
16	17	18	29	15	16	14
15	16	17	27	14	15	13
14	15	16	26	13	14	12
13	14	15	25	13	13	11
12	13	14	23	12	12	11
11	12	13	22	11	11	10
10	11	12	21	11	9	9
9	10	11	19	10	8	8
8	9	10	18	9	7	7
7	8	9	17	9	6	6
6	7	8	15	8	5	5
5	6	7	14	7	4	4
4	5	6	13	7	2	3
3	4	5	11	6	1	2
2	3	4	10	5	0	1
1	2	3	9	5	- 1	1
0	2	2	7	4	- 2	0

TABLE 32. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR WORD KNOWLEDGE

PROCEDURE 3, LINEAR METHOD

MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM C VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
50	33	34	32	26	35	29
49	32	33	31	25	34	28
48	32	33	31	25	33	28
47	31	32	30	24	33	27
46	30	31	29	24	32	26
45	29	30	28	23	31	25
44	29	30	28	23	30	25
43	28	29	27	22	29	24
42	27	28	26	22	28	23
41	26	27	25	21	27	23
40	26	27	25	21	26	22
39	25	26	24	20	25	21
38	24	25	23	20	25	21
37	23	24	22	19	24	20
36	23	24	22	19	23	19
35	22	23	21	18	22	19
34	21	22	20	18	21	18
33	20	21	19	17	20	17
32	20	21	19	17	19	17
31	19	20	18	16	18	16
30	18	19	17	16	18	15
29	18	19	16	15	17	15
28	17	18	16	15	16	14
27	16	17	15	14	15	13
26	15	16	14	13	14	12
25	15	16	13	13	13	12
24	14	15	13	12	12	11
23	13	14	12	12	11	10
22	12	13	11	11	11	10
21	12	13	10	11	10	9
20	11	12	10	10	9	8
19	10	11	9	10	8	8
18	9	10	8	9	7	7
17	9	10	7	9	6	6
16	8	9	7	8	5	6
15	7	8	6	8	4	5
14	6	7	5	7	4	4
13	6	7	4	7	3	4
12	5	6	4	6	2	3
11	4	5	3	6	1	2
10	3	4	2	5	0	1

TABLE 32. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR WORD KNOWLEDGE

PROCEDURE 3, LINEAR METHOD

MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
9	3	4	1	5	- 1	1
8	2	3	1	4	- 2	0
7	1	2	0	4	- 3	- 1
6	1	1	- 1	3	- 3	- 1
5	0	1	- 2	3	- 4	- 2
4	- 1	0	- 2	2	- 5	- 3
3	- 2	- 1	- 3	2	- 6	- 3
2	- 2	- 2	- 4	1	- 7	- 4
1	- 3	- 2	- 5	1	- 8	- 5
0	- 4	- 3	- 5	0	- 9	- 5

TABLE 33. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR PART I (VOCABULARY)

PROCEDURE 3, LINEAR METHOD

STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
30	39	40	38	58	42	34
29	38	39	37	56	40	33
28	36	37	35	54	39	32
27	35	36	34	52	37	30
26	33	34	32	50	35	29
25	32	33	31	48	34	28
24	30	31	29	46	32	26
23	29	30	28	45	30	25
22	28	29	27	43	29	24
21	26	27	25	41	27	22
20	25	26	24	39	25	21
19	23	24	22	37	23	20
18	22	23	21	35	22	18
17	20	21	19	33	20	17
16	19	20	18	31	18	16
15	18	19	16	29	17	15
14	16	17	15	27	15	13
13	15	15	13	25	13	12
12	13	14	12	23	12	11
11	12	13	11	21	10	9
10	10	11	9	19	8	8
9	9	10	8	17	7	7
8	8	8	6	16	5	5
7	6	7	5	14	3	4
6	5	6	3	12	1	3
5	3	4	2	10	0	1
4	2	3	0	8	- 2	0
3	0	1	- 1	6	- 4	- 1
2	- 1	0	- 3	4	- 5	- 3
1	- 2	- 2	- 4	2	- 7	- 4
0	- 4	- 3	- 5	0	- 9	- 5

TABLE 34. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR VOCABULARY

PROCEDURE 3, LINEAR METHOD

SRA (71 ED.) BLUE FORM E VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART I (VOCAB.)	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
42	39	40	38	58	30	34
41	38	39	37	57	29	34
40	37	38	36	56	29	33
39	36	38	36	54	28	32
38	36	37	35	53	28	31
37	35	36	34	52	27	30
36	34	35	33	51	26	30
35	33	34	32	50	26	29
34	32	33	31	49	25	28
33	31	32	30	48	25	27
32	30	32	30	47	24	27
31	30	31	29	45	24	26
30	29	30	28	44	23	25
29	28	29	27	43	22	24
28	27	28	26	42	22	23
27	26	27	25	41	21	23
26	25	26	24	40	21	22
25	25	26	24	39	20	21
24	24	25	23	37	19	20
23	23	24	22	36	19	19
22	22	23	21	35	18	19
21	21	22	20	34	18	18
20	20	21	19	33	17	17
19	20	21	18	32	16	16
18	19	20	18	31	16	16
17	18	19	17	29	15	15
16	17	18	16	28	15	14
15	16	17	15	27	14	13
14	15	16	14	26	13	12
13	14	15	13	25	13	12
12	14	15	12	24	12	11
11	13	14	12	23	12	10
10	12	13	11	21	11	9
9	11	12	10	20	11	9
8	10	11	9	19	10	8
7	9	10	8	18	9	7
6	9	9	7	17	9	6
5	8	9	6	16	8	5
4	7	8	6	15	8	5
3	6	7	5	13	7	4
2	5	6	4	12	6	3

TABLE 34. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR VOCABULARY

PROCEDURE 3, LINEAR METHOD

SRA (71 ED.) BLUE FORM F VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
1	4	5	3	11	6	2
0	4	4	2	10	5	1

TABLE 35. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR WORD MEANING

PROCEDURE 3, LINEAR METHOD

SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM C VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
38	43	44	42	63	33	47
37	42	43	41	62	32	46
36	41	42	40	60	31	44
35	40	41	39	59	31	43
34	39	40	38	58	30	42
33	37	39	37	56	29	40
32	36	38	36	55	28	39
31	35	36	35	53	28	38
30	34	35	33	52	27	37
29	33	34	32	50	26	35
28	32	33	31	49	25	34
27	31	32	30	47	25	33
26	30	31	29	46	24	31
25	29	30	28	44	23	30
24	28	29	27	43	22	29
23	27	28	26	41	21	28
22	26	27	25	40	21	26
21	25	26	24	39	20	25
20	24	25	22	37	19	24
19	22	23	21	36	18	23
18	21	22	20	34	18	21
17	20	21	19	33	17	20
16	19	20	18	31	16	19
15	18	19	17	30	15	17
14	17	18	16	28	15	16
13	16	17	15	27	14	15
12	15	16	14	25	13	14
11	14	15	13	24	12	12
10	13	14	11	23	12	11
9	12	13	10	21	11	10
8	11	12	9	20	10	8
7	10	10	8	18	9	7
6	8	9	7	17	9	6
5	7	8	6	15	8	5
4	6	7	5	14	7	3
3	5	6	4	12	6	2
2	4	5	3	11	6	1
1	3	4	2	9	5	0
0	2	3	1	8	4	-2

TABLE 36. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING VOCABULARY

PROCEDURE 3, EQUIPERCENTILE METHOD

CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
40	40	38	50	30	42	38
39	39	37	50	29	41	36
38	38	37	49	29	41	35
37	37	36	49	28	40	34
36	36	35	48	27	39	32
35	35	34	48	26	38	31
34	34	33	47	26	37	30
33	34	32	47	25	36	29
32	33	31	46	25	35	28
31	32	31	46	24	34	27
30	31	30	45	24	33	26
29	30	29	45	23	31	25
28	29	28	44	22	30	24
27	29	27	43	22	29	23
26	28	26	42	21	27	22
25	27	24	41	21	25	21
24	26	23	41	20	24	20
23	25	22	39	19	22	19
22	24	21	38	19	21	18
21	23	20	37	18	19	17
20	21	18	36	17	18	16
19	20	17	34	17	17	15
18	19	16	32	16	16	15
17	18	15	31	15	15	14
16	17	14	28	14	14	13
15	16	13	26	14	13	12
14	15	12	24	13	12	11
13	14	12	22	12	11	10
12	13	11	20	11	11	10
11	12	10	18	10	10	9
10	11	9	16	9	9	8
9	10	8	15	8	8	7
8	9	8	13	8	8	6
7	8	7	11	7	7	5
6	6	6	10	6	6	4
5	5	5	8	5	5	4
4	4	4	7	4	4	3
3	3	3	5	3	3	2
2	2	2	4	2	2	1
1	1	1	2	2	1	1
0	0	0	0	1	0	0

TABLE 37. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR READING VOCABULARY

PROCEDURE 3, EQUIPERCENTILE METHOD

CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
40	40	38	50	30	42	38
39	39	37	50	29	42	36
38	38	37	49	29	41	35
37	37	36	49	28	40	34
36	36	35	48	27	39	32
35	35	34	48	26	38	31
34	34	33	47	26	37	30
33	32	32	46	25	35	28
32	31	31	46	24	34	27
31	30	30	45	24	32	26
30	29	28	44	23	31	25
29	28	27	44	22	29	24
28	27	26	43	22	28	23
27	26	25	42	21	26	22
26	24	24	41	20	25	21
25	23	22	40	20	23	20
24	22	21	39	19	21	19
23	22	20	38	18	20	18
22	21	19	36	18	19	17
21	20	18	35	17	18	16
20	19	17	34	17	17	15
19	18	16	32	16	15	14
18	17	15	30	15	15	14
17	16	14	29	14	14	13
16	15	13	27	14	13	12
15	14	13	25	13	12	11
14	13	12	23	12	12	11
13	12	11	21	11	11	10
12	11	10	19	11	10	9
11	10	9	17	10	9	8
10	9	9	15	9	9	8
9	9	8	14	8	8	7
8	8	7	12	7	7	6
7	7	6	11	6	7	5
6	6	6	9	5	6	4
5	5	5	8	4	5	3
4	4	4	6	3	4	2
3	3	3	5	3	3	2
2	2	2	3	2	2	1
1	1	1	2	2	1	1
0	0	0	0	1	0	0

TABLE 38. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR VOCABULARY

PROCEDURE 3, EQUIPERCENTILE METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM C VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
38	40	40	50	30	42	38
37	39	39	50	29	41	36
36	37	37	49	28	40	34
35	36	36	48	27	39	33
34	35	35	48	27	38	31
33	34	34	47	26	37	30
32	33	33	47	25	36	29
31	32	32	46	24	34	28
30	30	32	45	24	33	26
29	29	31	45	23	32	25
28	28	30	44	23	31	25
27	27	29	43	22	29	24
26	26	28	43	21	28	23
25	26	27	42	21	26	22
24	25	26	41	20	25	21
23	24	26	40	20	24	20
22	23	25	40	19	22	19
21	22	24	39	19	21	19
20	21	23	38	18	20	18
19	21	22	36	18	19	17
18	20	21	35	17	18	16
17	19	20	34	17	17	15
16	18	19	32	16	15	14
15	17	18	30	15	15	14
14	16	17	28	14	14	13
13	15	16	26	13	13	12
12	14	14	23	13	12	11
11	12	13	21	11	11	10
10	11	12	18	10	10	9
9	10	10	16	9	9	8
8	9	9	14	8	8	7
7	7	8	12	7	7	6
6	6	7	10	6	6	5
5	5	6	8	5	5	4
4	4	4	7	4	4	3
3	3	3	5	3	3	2
2	2	2	4	2	2	1
1	1	1	2	2	1	1
0	0	0	0	1	0	0

TABLE 39. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR WORD KNOWLEDGE

PROCEDURE 3, EQUIPERCENTILE METHOD

MA. (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
50	39	39	37	29	42	36
49	37	37	36	28	40	34
48	36	36	34	27	39	32
47	34	34	33	26	37	30
46	32	33	31	24	34	28
45	30	31	30	24	32	26
44	28	30	28	23	30	24
43	27	28	26	22	28	23
42	26	27	25	21	26	22
41	25	26	24	20	25	21
40	24	25	23	20	23	20
39	23	24	21	19	22	19
38	22	23	21	19	21	18
37	21	23	20	18	19	17
36	20	22	19	18	18	17
35	20	21	18	17	18	16
34	19	20	17	17	17	15
33	18	20	17	16	16	15
32	18	19	16	16	15	14
31	17	18	15	15	15	14
30	17	18	15	15	14	13
29	16	17	14	15	14	13
28	16	17	14	14	14	13
27	15	16	14	14	13	12
26	15	16	13	14	13	12
25	14	15	13	13	12	12
24	14	15	12	13	12	11
23	14	14	12	12	12	11
22	13	14	12	12	11	10
21	13	13	11	12	11	10
20	12	13	11	11	11	10
19	12	12	10	11	10	9
18	11	12	10	10	10	9
17	11	11	10	10	10	8
16	10	11	9	9	9	8
15	9	10	9	9	9	7
14	9	9	8	8	8	7
13	8	9	8	8	8	6
12	7	8	7	7	7	6
11	7	7	7	6	7	5
10	6	7	6	6	6	5

TABLE 39. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR WORD KNOWLEDGE

PROCEDURE 3, EQUIPERCENTILE METHOD

MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM C VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
9	6	6	5	5	6	4
8	5	5	5	4	5	3
7	4	5	4	4	4	3
6	4	4	3	3	4	2
5	3	3	3	3	3	2
4	2	3	2	2	2	1
3	2	2	2	2	2	1
2	1	1	1	2	1	1
1	0	1	0	1	1	0
0	0	0	0	1	0	0

TABLE 40. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR PART 1 (VOCABULARY)

PROCEDURE 3, EQUIPERCENTILE METHOD

STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM C VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
30	40	40	38	50	42	38
29	39	39	37	50	41	36
28	37	37	36	49	40	34
27	36	36	35	48	39	32
26	34	35	33	47	37	30
25	33	33	32	47	36	29
24	31	32	30	46	34	27
23	29	30	29	45	31	25
22	27	29	27	43	29	24
21	26	27	25	42	27	22
20	24	26	23	41	24	20
19	23	24	21	39	22	19
18	21	22	20	37	19	17
17	20	21	18	35	17	16
16	18	19	16	32	16	15
15	17	18	15	30	14	13
14	16	16	14	27	13	12
13	14	15	13	25	12	11
12	13	14	12	22	11	10
11	12	13	11	20	11	10
10	11	11	10	18	10	9
9	10	10	9	16	9	8
8	9	9	8	14	8	7
7	8	8	7	12	7	6
6	7	7	6	11	6	5
5	6	6	5	9	6	4
4	4	5	4	7	5	3
3	3	3	3	5	3	2
2	2	2	2	3	2	1
1	0	0	0	1	0	0
0	0	0	0	0	0	0

TABLE 41. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR VOCABULARY

PROCEDURE 3, EQUIPERCENTILE METHOD

SRA (71 ED.) BLUE FORM E VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM C VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
42	40	40	38	50	30	37
41	38	38	37	50	29	35
40	37	37	36	49	28	34
39	36	36	35	48	27	32
38	35	35	34	48	26	31
37	34	34	33	47	26	30
36	33	34	32	47	25	29
35	32	33	32	46	25	28
34	31	32	31	46	24	27
33	30	31	30	45	24	26
32	30	31	29	45	23	26
31	29	30	28	44	23	25
30	28	29	28	44	22	24
29	27	29	27	43	22	23
28	27	28	26	43	22	23
27	26	28	26	42	21	22
26	25	27	25	42	21	22
25	25	26	24	41	20	21
24	24	26	23	41	20	20
23	24	25	23	40	20	20
22	23	25	22	39	19	19
21	22	24	21	39	19	19
20	22	23	20	38	18	18
19	21	22	19	37	18	17
18	20	21	18	36	17	16
17	19	21	18	34	17	16
16	18	20	17	33	16	15
15	17	19	16	31	16	14
14	16	17	15	29	15	13
13	15	16	13	27	14	12
12	14	15	12	24	13	11
11	13	13	11	21	12	10
10	11	12	10	18	10	9
9	10	10	9	16	9	8
8	9	9	8	14	8	7
7	7	8	7	12	7	6
6	6	7	6	10	6	5
5	5	5	5	8	4	3
4	4	4	4	7	4	3
3	3	3	3	5	3	2
2	2	2	2	3	2	1

TABLE 41. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR VOCABULARY

PROCEDURE 3, EQUIPERCENTILE METHOD

SRA (71 ED.) BLUE FORM E VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
1	1	1	1	2	2	1
0	0	0	0	0	1	0

TABLE 42. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR WORD MEANING

PROCEDURE 3, EQUIPERCENTILE METHOD

SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
38	40	40	38	50	30	42
37	40	40	38	50	30	42
36	39	39	37	50	29	42
35	38	38	37	50	29	41
34	37	37	36	49	28	40
33	37	37	35	49	28	40
32	36	36	35	46	27	39
31	35	35	34	48	26	38
30	34	34	33	47	26	37
29	33	34	32	47	25	36
28	32	33	31	46	25	35
27	31	32	31	46	24	34
26	30	31	30	45	24	33
25	29	30	29	44	23	31
24	28	29	28	44	22	30
23	27	28	26	43	22	28
22	26	27	25	42	21	27
21	25	26	24	41	21	25
20	24	25	23	40	20	24
19	23	24	22	39	19	22
18	22	23	20	38	19	20
17	21	22	19	36	18	19
16	20	21	18	35	17	18
15	19	20	17	33	16	16
14	17	19	16	31	16	15
13	16	17	14	29	15	14
12	15	16	13	27	14	13
11	14	14	12	24	13	12
10	13	13	11	21	12	11
9	11	12	10	18	10	10
8	10	11	9	16	9	9
7	9	9	8	14	8	8
6	8	8	7	12	7	7
5	7	7	6	11	6	7
4	6	6	5	9	5	6
3	4	5	4	7	4	5
2	3	3	3	5	3	3
1	2	2	2	3	2	2
0	0	0	0	1	1	0

TABLE 43. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING VOCABULARY

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
40	42	39	61	31	44	36
39	41	38	60	30	43	35
38	40	37	58	29	42	34
37	39	36	57	29	41	33
36	38	35	55	28	40	32
35	37	34	54	27	39	31
34	36	33	53	27	37	30
33	35	32	51	26	36	30
32	34	31	50	25	35	29
31	33	30	49	25	34	28
30	32	29	47	24	33	27
29	31	28	46	23	32	26
28	30	27	45	22	30	25
27	29	26	43	22	29	24
26	28	25	42	21	28	23
25	27	24	40	20	27	22
24	26	23	39	20	26	21
23	25	22	38	19	25	20
22	24	21	36	18	23	20
21	23	20	35	17	22	19
20	22	19	34	17	21	18
19	21	18	32	16	20	17
18	20	17	31	15	19	16
17	19	16	30	15	18	15
16	18	15	28	14	17	14
15	17	14	27	13	15	13
14	16	13	25	13	14	12
13	15	12	24	12	13	11
12	14	11	23	11	12	10
11	13	10	21	10	11	9
10	12	9	20	10	10	9
9	11	8	19	9	9	8
8	10	7	17	8	7	7
7	9	6	16	8	6	6
6	8	5	15	7	5	5
5	7	4	13	6	4	4
4	6	3	12	6	3	3
3	5	2	10	5	2	2
2	4	1	9	4	0	1
1	3	0	8	3	-1	0
0	2	-1	6	3	-2	-1

TABLE 44. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR READING VOCABULARY

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
40	38	37	58	29	42	34
39	37	36	57	29	41	33
38	36	35	55	28	40	32
37	35	34	54	27	38	31
36	34	33	53	27	37	31
35	33	32	51	26	36	30
34	32	31	50	25	35	29
33	31	30	49	25	34	28
32	30	29	47	24	33	27
31	29	28	46	23	32	26
30	28	27	45	22	30	25
29	27	26	43	22	29	24
28	26	25	42	21	28	23
27	25	24	40	20	27	22
26	24	23	39	20	26	21
25	23	22	38	19	25	20
24	22	21	36	18	24	20
23	21	20	35	18	22	19
22	20	19	34	17	21	18
21	19	18	32	16	20	17
20	18	17	31	15	19	16
19	17	16	30	15	18	15
18	16	15	28	14	17	14
17	15	14	27	13	16	13
16	14	13	26	13	14	12
15	13	12	24	12	13	11
14	12	11	23	11	12	10
13	11	10	21	11	11	9
12	10	9	20	10	10	9
11	9	8	19	9	9	8
10	8	7	17	8	7	7
9	7	6	16	8	6	6
8	6	5	15	7	5	5
7	5	4	13	6	4	4
6	4	3	12	6	3	3
5	3	2	11	5	2	2
4	2	1	9	4	1	1
3	1	0	8	3	- 1	0
2	0	- 1	6	3	- 2	- 1
1	- 1	- 2	5	2	- 3	- 1
0	- 2	- 3	4	1	- 4	- 2

TABLE 45. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR VOCABULARY

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM C VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
38	39	41	59	30	43	35
37	38	40	58	29	42	34
36	37	39	56	29	40	33
35	36	38	55	28	39	32
34	35	37	54	27	38	31
33	34	36	52	26	37	30
32	33	35	51	26	36	29
31	32	34	50	25	35	28
30	31	33	48	24	34	28
29	30	32	47	24	32	27
28	29	31	46	23	31	26
27	28	30	44	22	30	25
26	27	29	43	22	29	24
25	26	28	42	21	28	23
24	25	27	40	20	27	22
23	24	26	39	19	26	21
22	23	25	38	19	25	20
21	22	24	36	18	23	19
20	21	23	35	17	22	19
19	20	22	33	17	21	18
18	19	21	32	16	20	17
17	18	20	31	15	19	16
16	17	19	29	15	18	15
15	16	18	28	14	17	14
14	15	17	27	13	15	13
13	14	16	25	13	14	12
12	13	15	24	12	13	11
11	12	14	23	11	12	10
10	11	13	21	10	11	9
9	10	12	20	10	10	9
8	9	11	19	9	9	8
7	8	10	17	8	7	7
6	7	9	16	8	6	6
5	6	8	15	7	5	5
4	5	7	13	6	4	4
3	4	6	12	6	3	3
2	3	5	11	5	2	2
1	2	4	9	4	1	1
0	1	3	8	3	0	0

TABLE 46. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR WORD KNOWLEDGE

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
50	32	34	31	25	35	29
49	31	33	31	25	34	28
48	31	33	30	24	33	27
47	30	32	29	24	33	27
46	29	31	28	23	32	26
45	28	30	28	23	31	25
44	28	30	27	22	30	25
43	27	29	26	22	29	24
42	26	28	25	21	28	23
41	26	28	25	21	28	23
40	25	27	24	20	27	22
39	24	26	23	20	26	21
38	23	25	22	19	25	21
37	23	25	22	19	24	20
36	22	24	21	18	23	19
35	21	23	20	18	22	19
34	20	22	20	17	22	18
33	20	22	19	16	21	17
32	19	21	18	16	20	17
31	18	20	17	15	19	16
30	17	19	17	15	18	15
29	17	19	16	14	17	15
28	16	18	15	14	17	14
27	15	17	14	13	16	13
26	15	16	14	13	15	13
25	14	16	13	12	14	12
24	13	15	12	12	13	11
23	12	14	11	11	12	11
22	12	14	11	11	11	10
21	11	13	10	10	11	9
20	10	12	9	10	10	9
19	9	11	8	9	9	8
18	9	11	8	9	8	7
17	8	10	7	8	7	7
16	7	9	6	8	6	6
15	6	8	5	7	6	5
14	6	8	5	7	5	5
13	5	7	4	6	4	4
12	4	6	3	6	3	3
11	4	5	2	5	2	3
10	3	5	2	5	1	2

TABLE 46. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR WORD KNOWLEDGE

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM C VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
9	2	4	1	4	1	1
8	1	3	0	4	0	1
7	1	2	- 1	3	- 1	0
6	0	2	- 1	3	- 2	- 1
5	- 1	1	- 2	2	- 3	- 1
4	- 2	0	- 3	2	- 4	- 2
3	- 2	0	- 4	1	- 5	- 3
2	- 3	- 1	- 4	1	- 5	- 3
1	- 4	- 2	- 5	0	- 6	- 4
0	- 5	- 3	- 6	- 1	- 7	- 5

TABLE 47. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR PART 1 (VOCABULARY)

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
30	39	41	38	59	43	35
29	38	40	37	57	41	34
28	36	38	35	56	40	32
27	35	37	34	54	38	31
26	33	35	33	52	36	30
25	32	34	31	50	35	28
24	30	32	30	48	33	27
23	29	31	28	46	32	26
22	28	30	27	44	30	25
21	26	28	25	42	28	23
20	25	27	24	40	27	22
19	23	25	23	38	25	21
18	22	24	21	36	23	19
17	20	22	20	34	22	18
16	19	21	18	32	20	17
15	18	20	17	30	18	15
14	16	18	15	28	17	14
13	15	17	14	26	15	13
12	13	15	12	25	14	12
11	12	14	11	23	12	10
10	11	12	10	21	10	9
9	9	11	8	19	9	8
8	8	10	7	17	7	6
7	6	8	5	15	5	5
6	5	7	4	13	4	4
5	3	5	2	11	2	2
4	2	4	1	9	0	1
3	1	3	- 1	7	- 1	0
2	- 1	1	- 2	5	- 3	- 1
1	- 2	0	- 3	3	- 4	- 3
0	- 4	- 2	- 5	1	- 6	- 4

TABLE 48. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR VOCABULARY

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

SRA (71 ED.) BLUE FORM E VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART I (VOCAB.)	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
42	38	40	38	58	30	34
41	37	39	37	57	29	33
40	36	38	36	56	28	33
39	36	38	35	55	28	32
38	35	37	34	54	27	31
37	34	36	33	52	26	30
36	33	35	32	51	26	29
35	32	34	31	50	25	29
34	31	33	31	49	25	28
33	30	32	30	48	24	27
32	29	31	29	46	23	26
31	29	31	28	45	23	26
30	28	30	27	44	22	25
29	27	29	26	43	22	24
28	26	28	25	42	21	23
27	25	27	24	41	20	22
26	24	26	23	39	20	22
25	23	25	23	38	19	21
24	23	25	22	37	19	20
23	22	24	21	36	18	19
22	21	23	20	35	17	18
21	20	22	19	33	17	18
20	19	21	18	32	16	17
19	18	20	17	31	15	16
18	17	19	16	30	15	15
17	16	18	15	29	14	14
16	16	18	15	28	14	14
15	15	17	14	26	13	13
14	14	16	13	25	12	12
13	13	15	12	24	12	11
12	12	14	11	23	11	10
11	11	13	10	22	11	10
10	10	12	9	20	10	9
9	10	11	9	19	9	8
8	9	11	8	18	9	7
7	8	10	7	17	8	6
6	7	9	6	16	8	6
5	6	8	5	15	7	5
4	5	7	4	13	6	4
3	4	6	3	12	6	3
2	3	5	2	11	5	2

TABLE 48. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR VOCABULARY

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

SRA (71 ED.) BLUE FORM E VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
1	3	5	1	10	4	2
0	2	4	1	9	4	1

TABLE 49. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR WORD MEANING

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
38	42	44	42	64	32	47
37	41	43	41	63	32	46
36	40	42	40	61	31	44
35	39	41	38	60	30	43
34	38	40	37	58	29	42
33	37	39	36	57	29	41
32	36	38	35	55	28	39
31	35	37	34	54	27	38
30	34	36	33	52	26	37
29	33	35	32	51	26	36
28	31	33	31	49	25	34
27	30	32	30	48	24	33
26	29	31	28	46	23	32
25	28	30	27	45	22	31
24	27	29	26	43	22	29
23	26	28	25	42	21	28
22	25	27	24	40	20	27
21	24	26	23	39	19	26
20	23	25	22	37	19	24
19	22	24	21	36	18	23
18	21	22	20	34	17	22
17	19	21	19	33	16	20
16	18	20	17	31	16	19
15	17	19	16	30	15	18
14	16	18	15	28	14	17
13	15	17	14	27	13	15
12	14	16	13	25	12	14
11	13	15	12	24	12	13
10	12	14	11	22	11	12
9	11	13	10	21	10	10
8	10	12	9	19	9	9
7	8	10	7	18	9	8
6	7	9	6	16	8	7
5	6	8	5	15	7	5
4	5	7	4	13	6	4
3	4	6	3	12	6	3
2	3	5	2	10	5	2
1	2	4	1	9	4	0
0	1	3	0	7	3	-1

TABLE 50. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING VOCABULARY

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
40	40	38	50	30	42	38
39	39	37	50	29	42	36
38	38	36	50	28	41	35
37	37	36	49	28	40	34
36	37	35	49	27	39	33
35	36	34	48	26	39	32
34	35	33	48	26	38	31
33	34	32	47	25	37	30
32	34	32	47	25	36	29
31	33	31	46	24	35	28
30	32	30	46	24	34	27
29	31	29	45	23	33	26
28	30	28	45	22	32	25
27	29	27	44	22	30	24
26	29	26	43	21	29	23
25	28	25	42	21	27	22
24	27	23	42	20	26	21
23	26	22	41	19	25	20
22	25	21	40	19	23	19
21	24	20	38	18	22	18
20	23	19	37	17	20	17
19	22	18	36	17	19	16
18	21	17	34	16	18	16
17	19	16	33	15	16	15
16	18	15	31	15	15	14
15	17	14	29	14	14	13
14	16	13	26	13	13	12
13	15	12	24	12	12	11
12	14	11	22	11	12	10
11	13	10	19	10	11	10
10	11	9	17	9	10	9
9	10	9	15	8	9	8
8	9	8	14	7	8	7
7	8	7	12	7	8	6
6	7	6	10	6	7	5
5	6	5	8	5	6	4
4	5	4	7	4	5	3
3	4	3	5	3	3	2
2	3	2	4	2	2	1
1	2	1	2	1	1	0
0	1	0	1	1	0	0

TABLE 51. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR READING VOCABULARY

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
40	40	38	50	30	42	38
39	39	37	50	29	42	36
38	38	36	49	28	41	35
37	37	35	49	27	40	33
36	36	34	48	27	39	32
35	34	33	48	26	38	31
34	33	32	47	25	37	30
33	32	31	46	24	35	28
32	30	30	46	24	34	27
31	29	29	45	23	33	26
30	28	28	44	22	31	25
29	27	26	44	22	30	24
28	26	25	43	21	28	23
27	25	24	42	20	27	22
26	23	23	41	20	25	21
25	22	21	40	19	23	20
24	21	20	39	18	22	19
23	20	19	38	18	21	18
22	20	18	36	17	19	17
21	19	17	35	16	18	16
20	18	16	34	16	17	15
19	17	15	32	15	16	14
18	16	14	30	14	15	14
17	15	14	29	14	14	13
16	14	13	27	13	13	12
15	13	12	25	12	13	11
14	12	11	22	11	12	11
13	12	11	20	11	11	10
12	11	10	18	10	10	9
11	10	9	16	9	10	8
10	9	8	15	8	9	8
9	8	8	13	7	8	7
8	7	7	12	7	7	6
7	6	6	10	6	7	5
6	5	5	9	5	6	4
5	4	4	7	4	5	3
4	3	3	6	3	4	3
3	2	2	4	2	3	2
2	1	1	2	2	1	1
1	0	0	1	1	1	0
0	0	0	1	0	0	0

TABLE 52. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR VOCABULARY

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
38	40	40	50	30	42	35
37	39	39	50	29	41	36
36	38	38	49	28	41	34
35	36	37	49	27	40	33
34	35	36	48	26	39	32
33	34	35	48	26	37	30
32	33	34	47	25	36	29
31	32	33	46	24	35	28
30	30	32	46	24	34	27
29	29	31	45	23	33	26
28	28	31	45	23	32	25
27	27	30	44	22	31	24
26	26	29	44	21	29	24
25	26	28	43	21	28	23
24	25	27	42	20	27	22
23	24	26	41	20	26	21
22	23	26	40	19	24	20
21	22	25	40	19	23	19
20	21	24	39	18	22	19
19	20	23	38	18	21	18
18	20	22	36	17	19	17
17	19	21	35	16	18	16
16	18	20	34	16	17	15
15	17	19	32	15	16	14
14	16	18	30	14	15	13
13	15	16	27	13	14	12
12	13	15	25	12	13	11
11	12	14	22	11	12	10
10	11	12	19	10	11	9
9	10	11	16	9	10	8
8	9	10	14	8	9	7
7	7	8	12	7	8	6
6	6	7	10	6	7	5
5	5	6	9	5	6	4
4	4	5	7	4	5	3
3	3	4	5	3	4	2
2	2	3	4	2	2	2
1	1	2	2	2	1	1
0	1	1	1	1	0	0

TABLE 53. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR WORD KNOWLEDGE

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
50	39	39	37	29	42	36
49	37	37	36	28	40	34
48	35	36	34	26	39	32
47	33	34	32	25	37	30
46	31	33	30	24	35	28
45	29	31	29	23	33	26
44	27	30	27	22	31	24
43	26	28	25	21	29	23
42	25	27	24	20	27	22
41	24	26	23	20	25	21
40	23	25	22	19	24	20
39	22	24	20	18	22	19
38	21	23	20	18	21	18
37	20	23	19	17	20	17
36	19	22	18	17	19	17
35	19	21	17	16	18	16
34	18	20	16	16	17	15
33	17	20	16	15	17	15
32	17	19	15	15	16	14
31	16	18	15	15	15	14
30	16	18	14	14	15	13
29	15	17	14	14	14	13
28	15	17	13	13	14	13
27	14	16	13	13	14	12
26	14	16	13	13	13	12
25	14	15	12	12	13	12
24	13	15	12	12	12	11
23	13	14	12	12	12	11
22	12	14	11	11	12	10
21	12	13	11	11	11	10
20	11	13	11	11	11	10
19	11	12	10	10	11	9
18	11	12	10	10	10	9
17	10	11	9	9	10	9
16	10	11	9	9	10	8
15	9	10	9	8	9	8
14	8	10	8	8	9	7
13	8	9	8	7	8	7
12	7	8	7	7	8	6
11	7	8	6	6	7	5
10	6	7	6	5	7	5

TABLE 53. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR WORD KNOWLEDGE

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
9	5	6	5	5	6	4
8	5	6	5	4	5	4
7	4	5	4	4	5	3
6	4	4	3	3	4	3
5	3	3	3	3	3	2
4	2	3	2	2	2	2
3	2	2	2	2	2	1
2	1	2	1	1	1	1
1	1	1	0	1	0	0
0	0	1	0	1	0	0

TABLE 54. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR PART 1 (VOCABULARY)

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	SRA (71 ED.) BLUE FORM E VOCABULARY	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
30	40	40	38	50	42	38
29	39	39	37	50	42	36
28	38	38	36	49	41	34
27	36	37	35	49	39	33
26	34	35	34	48	38	31
25	33	34	32	47	36	29
24	31	33	21	46	35	20
23	29	31	29	45	33	26
22	27	30	27	44	31	24
21	26	28	25	43	29	23
20	24	27	24	42	26	21
19	23	25	22	40	24	20
18	21	24	20	39	22	19
17	20	22	18	37	20	17
16	18	21	17	35	18	16
15	17	19	15	32	16	14
14	16	18	14	30	15	13
13	14	16	13	27	14	12
12	13	15	12	24	13	11
11	12	14	11	21	12	10
10	11	12	10	19	11	9
9	10	11	9	17	10	9
8	9	10	8	15	9	8
7	8	9	7	13	8	7
6	7	8	6	11	7	6
5	6	6	6	9	6	5
4	4	5	5	8	5	3
3	3	4	3	6	4	2
2	2	3	2	4	2	1
1	1	1	0	1	0	0
0	0	1	0	0	0	0

TABLE 55. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR VOCABULARY

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

SRA (71 ED.) BLUE FORM E VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM C VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
42	40	40	38	50	30	37
41	38	38	37	50	29	35
40	37	37	36	49	28	34
39	36	36	35	48	27	32
38	35	35	34	48	26	31
37	33	34	33	47	25	30
36	32	34	32	47	25	29
35	31	33	31	46	24	28
34	30	32	30	46	24	27
33	29	31	29	45	23	26
32	29	31	28	45	23	25
31	28	30	27	44	22	25
30	27	29	27	44	22	24
29	26	29	26	43	21	23
28	25	28	25	43	21	23
27	25	27	24	42	20	22
26	24	27	24	42	20	21
25	23	26	23	41	20	21
24	23	25	22	40	19	20
23	22	25	21	40	19	19
22	21	24	20	39	18	19
21	21	23	19	38	18	18
20	20	23	19	37	17	17
19	19	22	18	36	17	17
18	18	21	17	35	16	16
17	18	20	16	34	16	15
16	17	19	15	32	15	14
15	16	18	14	31	14	14
14	15	17	13	28	14	13
13	14	16	13	26	13	12
12	13	14	12	23	12	11
11	11	13	11	20	11	10
10	10	12	9	17	9	9
9	9	10	8	15	8	8
8	8	9	7	13	7	7
7	7	8	6	11	6	5
6	6	6	5	9	5	4
5	4	5	5	8	4	3
4	4	4	4	6	3	3
3	3	3	3	5	3	2
2	2	3	2	3	2	1

TABLE 55. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR VOCABULARY

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

SRA (71 ED.) BLUE FORM E VOCABULARY	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
1	1	2	1	2	1	1
0	1	1	0	1	1	0

TABLE 56. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR WORD MEANING

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY	MAT (70 ED.) ELEMENTARY FORM F WORD KNOWLEDGE	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)	SRA (71 ED.) BLUE FORM E VOCABULARY
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
38	40	40	38	50	30	42
37	40	40	38	50	30	42
36	39	39	37	50	29	42
35	38	38	37	50	28	41
34	37	38	36	49	28	40
33	37	37	35	49	27	40
32	36	36	35	46	27	39
31	35	35	34	48	26	38
30	33	34	33	47	26	37
29	32	34	32	47	25	36
28	31	33	31	46	24	35
27	30	32	30	46	24	34
26	29	31	29	45	23	33
25	28	30	28	45	23	32
24	27	29	27	44	22	30
23	26	28	26	43	21	29
22	25	28	24	42	21	27
21	24	27	23	41	20	26
20	23	26	22	40	19	24
19	22	25	21	39	18	23
18	21	23	19	38	18	21
17	20	22	18	37	17	20
16	19	21	17	35	16	18
15	17	20	16	33	16	17
14	16	19	15	31	15	16
13	15	17	14	29	14	14
12	14	16	13	27	13	13
11	13	15	12	24	12	12
10	12	13	11	21	11	11
9	10	12	10	18	10	10
8	9	11	9	16	9	9
7	8	9	8	14	8	9
6	7	8	7	12	7	8
5	6	7	6	10	6	7
4	5	6	5	9	5	6
3	4	5	4	7	4	5
2	3	3	3	5	3	3
1	2	2	2	3	2	2
0	1	1	0	1	1	0

LIST OF EQUATING TABLES AT GRADE 4

READING COMPREHENSION

Methods	Tests	Table Numbers
Procedure 1: Linear Method	CAT	57
	CTBS	58
	ITBS	59
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	STEP II	61
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	SAT	63
Procedure 1: Equipercentile Method	CAT	64
	CTBS	65
	ITBS	66
	MAT	67
	STEP II	68
	SRA	69
	SAT	70
Procedure 2: Linear Method	CAT	71
	CTBS	72
	ITBS	73
	MAT	74
	STEP II	75
	SRA	76
	SAT	77
Procedure 2: Equipercentile Method	CAT	78
	CTBS	79
	ITBS	80
	MAT	81
	STEP II	82
	SRA	83
	SAT	84
Procedure 3: Linear Method	CAT	85
	CTBS	86
	ITBS	87
	MAT	88
	STEP II	89
	SRA	90
	SAT	91
Procedure 3: Equipercentile Method	CAT	92
	CTBS	93
	ITBS	94
	MAT	95
	STEP II	96
	SRA	97
	SAT	98
Average of Procedures 1 and 2 Linear Method	CAT	99
	CTBS	100
	ITBS	101
	MAT	102
	STEP II	103
	SRA	104
	SAT	105
Average of Procedures 1 and 2 Equipercentile Method	CAT	106
	CTBS	107
	ITBS	108
	MAT	109
	STEP II	110
	SRA	111
	SAT	112

TABLE 57. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 1, LINEAR METHOD

CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
42	50	67	54	30	47	59
41	49	65	52	29	45	57
40	47	64	51	29	44	56
39	46	62	50	28	43	54
38	45	60	48	27	42	53
37	44	58	47	26	41	51
36	42	57	46	25	39	50
35	41	55	45	25	38	49
34	40	53	43	24	37	47
33	39	51	42	23	36	46
32	37	50	41	22	35	44
31	36	48	39	21	34	43
30	35	46	38	20	32	41
29	34	45	37	20	31	40
28	32	43	35	19	30	38
27	31	41	34	18	29	37
26	30	39	33	17	28	35
25	29	38	32	16	27	34
24	27	36	30	16	25	32
23	26	34	29	15	24	31
22	25	32	28	14	23	29
21	24	31	26	13	22	28
20	23	29	25	12	21	26
19	21	27	24	12	20	25
18	20	26	22	11	18	24
17	19	24	21	10	17	22
16	18	22	20	9	16	21
15	16	20	19	8	15	19
14	15	19	17	8	14	18
13	14	17	16	7	12	16
12	13	15	15	6	11	15
11	11	13	13	5	10	13
10	10	12	12	4	9	12
9	9	10	11	4	8	10
8	8	8	9	3	7	9
7	6	7	8	2	5	7
6	5	5	7	1	4	6
5	4	3	5	0	3	4
4	3	1	4	0	2	3
3	1	0	3	- 1	1	1
2	0	- 2	2	- 2	0	0

TABLE 57. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 1, LINEAR METHOD

CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
1	- 1	- 4	0	- 3	- 2	- 1
0	- 2	- 6	- 1	- 4	- 3	- 3

TABLE 58. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 1, LINEAR METHOD

CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
45	38	60	49	27	42	53
44	37	59	48	26	41	52
43	37	58	47	26	40	51
42	36	56	45	25	39	50
41	35	55	44	24	38	48
40	34	53	43	24	37	47
39	33	52	42	23	35	45
38	33	51	41	22	35	45
37	32	49	40	22	34	44
36	31	48	39	21	33	42
35	30	46	38	21	33	41
34	29	45	37	20	32	40
33	29	44	36	19	31	39
32	28	42	35	19	30	38
31	27	41	34	18	29	37
30	26	39	33	17	28	35
29	25	38	32	17	27	34
28	25	37	31	16	26	33
27	24	35	30	15	25	32
26	23	34	29	15	24	31
25	22	33	28	14	23	29
24	21	31	27	13	22	28
23	20	30	26	13	21	27
22	20	28	25	12	20	26
21	19	27	24	12	19	25
20	18	26	22	11	18	24
19	17	24	21	10	17	22
18	16	23	20	10	16	21
17	16	21	19	9	16	20
16	15	20	18	8	15	19
15	14	19	17	8	14	18
14	13	17	16	7	13	16
13	12	16	15	6	12	15
12	12	14	14	6	11	14
11	11	13	13	5	10	13
10	10	12	12	4	9	12
9	9	10	11	4	8	11
8	8	9	10	3	7	9
7	8	8	9	3	6	8
6	7	6	8	2	5	7
5	6	5	7	1	4	6

TABLE 58. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 1, LINEAR METHOD

CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-[illegible] (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
4	5	3	6	1	3	5
3	4	2	5	0	2	3
2	4	1	4	- 1	1	2
1	3	- 1	3	- 1	0	1
0	2	- 2	2	- 2	0	0

TABLE 59. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 1, LINEAR METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM C COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
68	43	51	54	31	47	60
67	42	50	54	30	47	59
66	41	49	53	30	46	58
65	41	48	52	29	45	57
64	40	48	51	29	44	56
63	40	47	51	28	44	55
62	39	46	50	28	43	55
61	39	46	49	27	42	54
60	38	45	48	27	42	53
59	37	44	48	26	41	52
58	37	43	47	26	40	51
57	36	43	46	25	40	50
56	36	42	45	25	39	49
55	35	41	45	25	38	49
54	35	41	44	24	38	48
53	34	40	43	24	37	47
52	33	39	42	23	36	46
51	33	38	42	23	36	45
50	32	38	41	22	35	44
49	32	37	40	22	34	44
48	31	36	39	21	34	43
47	31	36	39	21	33	42
46	30	35	38	20	32	41
45	29	34	37	20	32	40
44	29	33	36	19	31	39
43	28	33	36	19	30	38
42	28	32	35	19	30	38
41	27	31	34	18	29	37
40	26	30	33	18	28	36
39	26	30	33	17	28	35
38	25	29	32	17	27	34
37	25	28	31	16	26	33
36	24	28	30	16	25	32
35	24	27	30	15	25	32
34	23	26	29	15	24	31
33	22	25	28	14	23	30
32	22	25	27	14	23	29
31	21	24	27	13	22	28
30	21	23	26	13	21	27
29	20	23	25	13	21	27
28	20	22	24	12	20	26

TABLE 59. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 1, LINEAR METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM C COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
27	19	21	24	12	19	25
26	18	20	23	11	19	24
25	18	20	22	11	18	23
24	17	19	21	10	17	22
23	17	18	21	10	17	21
22	16	18	20	9	16	21
21	15	17	19	9	15	20
20	15	16	18	8	15	19
19	14	15	18	8	14	18
18	14	15	17	7	13	17
17	13	14	16	7	13	16
16	13	13	15	6	12	15
15	12	12	15	6	11	15
14	11	12	14	6	11	14
13	11	11	13	5	10	13
12	10	10	12	5	9	12
11	10	10	11	4	9	11
10	9	9	11	4	8	10
9	9	8	10	3	7	10
8	8	7	9	3	6	9
7	7	7	8	2	6	8
6	7	6	8	2	5	7
5	6	5	7	1	4	6
4	6	5	6	1	4	5
3	5	4	5	0	3	4
2	4	3	5	0	2	4
1	4	2	4	0	2	3
0	3	2	3	-1	1	2

TABLE 60. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING (COMPREHENSION

PROCEDURE 1, LINEAR METHOD

MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
45	35	42	56	25	39	49
44	35	41	54	24	38	48
43	34	40	53	24	37	47
42	33	39	52	23	36	46
41	32	38	50	22	35	45
40	32	37	49	22	34	43
39	31	36	48	21	33	42
38	30	35	46	20	32	41
37	29	34	45	20	32	40
36	29	33	44	19	31	39
35	28	32	42	19	30	38
34	27	31	41	18	29	37
33	26	30	40	17	28	36
32	25	29	38	17	27	34
31	25	28	37	16	26	33
30	24	27	36	16	25	32
29	23	26	34	15	24	31
28	22	25	33	14	23	30
27	22	24	32	14	23	29
26	21	23	30	13	22	28
25	20	23	29	12	21	27
24	19	22	28	12	20	25
23	19	21	26	11	19	24
22	18	20	25	11	18	23
21	17	19	24	10	17	22
20	16	18	22	9	16	21
19	15	17	21	9	15	20
18	15	16	20	8	14	19
17	14	15	18	8	14	17
16	13	14	17	7	13	16
15	12	13	16	6	12	15
14	12	12	14	6	11	14
13	11	11	13	5	10	13
12	10	10	12	4	9	12
11	9	9	10	4	8	11
10	9	8	9	3	7	10
9	8	7	8	3	6	8
8	7	6	6	2	5	7
7	6	5	5	1	5	6
6	5	4	4	1	4	5
5	5	3	2	0	3	4

TABLE 60. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING (COMPREHENSION

PROCEDURE 1, LINEAR METHOD

MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM C COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
4	4	2	1	0	2	3
3	3	2	0	- 1	1	2
2	2	1	- 1	- 2	0	1
1	2	0	- 3	- 2	- 1	- 1
0	1	- 1	- 4	- 3	- 2	- 2

TABLE 61. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR PART 2 (COMPREHENSION)

PROCEDURE 1, LINEAR METHOD

STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM C COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
30	42	50	67	54	46	59
29	41	48	65	52	45	57
28	39	47	63	50	43	55
27	38	45	60	49	42	53
26	37	44	58	47	41	51
25	36	42	56	45	39	50
24	34	40	54	44	38	48
23	33	39	52	42	36	46
22	32	37	50	41	35	44
21	31	36	47	39	33	42
20	29	34	45	37	32	40
19	28	33	43	36	30	39
18	27	31	41	34	29	37
17	26	30	39	32	27	35
16	25	28	37	31	26	33
15	23	26	35	29	24	31
14	22	25	32	28	23	29
13	21	23	30	26	22	28
12	20	22	28	24	20	26
11	18	20	26	23	19	24
10	17	19	24	21	17	22
9	16	17	22	19	16	20
8	15	16	19	18	14	18
7	13	14	17	16	13	17
6	12	13	15	15	11	15
5	11	11	13	13	10	13
4	10	9	11	11	8	11
3	8	8	9	10	7	9
2	7	6	7	8	5	7
1	6	5	4	6	4	6
0	5	3	2	5	3	4

TABLE 62. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 1, LINEAR METHOD

SRA (71 ED.) BLUE FORM E READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
48	43	52	69	55	31	61
47	43	50	68	54	30	60
46	42	49	66	53	30	58
45	41	48	65	52	29	57
44	40	47	63	51	28	56
43	39	46	62	50	28	54
42	38	45	60	49	27	53
41	37	44	59	48	26	52
40	37	43	58	47	26	51
39	36	42	56	45	25	49
38	35	41	55	44	24	48
37	34	40	53	43	24	47
36	33	39	52	42	23	46
35	32	38	50	41	22	44
34	31	37	49	40	22	43
33	31	36	47	39	21	42
32	30	35	46	38	20	41
31	29	33	44	37	20	39
30	28	32	43	35	19	38
29	27	31	41	34	18	37
28	26	30	40	33	18	36
27	25	29	38	32	17	34
26	25	28	37	31	16	33
25	24	27	35	30	15	32
24	23	26	34	29	15	31
23	22	25	32	28	14	29
22	21	24	31	27	13	28
21	20	23	30	25	13	27
20	20	22	28	24	12	26
19	19	21	27	23	11	24
18	18	20	25	22	11	23
17	17	19	24	21	10	22
16	16	18	22	20	9	21
15	15	17	21	19	9	19
14	14	15	19	18	8	18
13	14	14	18	17	7	17
12	13	13	16	15	7	16
11	12	12	15	14	6	14
10	11	11	13	13	5	13
9	10	10	12	12	5	12
8	9	9	10	11	4	11

TABLE 62. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 1, LINEAR METHOD

SRA (71 ED.) BLUE FORM E READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
7	8	8	9	10	3	9
6	8	7	7	9	2	8
5	7	6	6	8	2	7
4	6	5	4	7	1	6
3	5	4	3	5	0	4
2	4	3	2	4	0	3
1	3	2	0	3	- 1	2
0	2	1	- 1	2	- 2	1

TABLE 63. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR PARAGRAPH MEANING

PROCEDURE 1, LINEAR METHOD

SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
60	43	51	68	55	31	47
59	42	50	67	54	30	47
58	42	49	66	53	30	46
57	41	48	65	52	29	45
56	40	48	64	51	29	44
55	39	47	63	50	28	43
54	39	46	61	49	28	43
53	38	45	60	49	27	42
52	37	44	59	48	26	41
51	37	43	58	47	26	40
50	36	42	57	46	25	40
49	35	42	56	45	25	39
48	35	41	54	44	24	38
47	34	40	53	43	24	37
46	33	39	52	42	23	36
45	33	38	51	41	23	36
44	32	37	50	41	22	35
43	31	37	48	40	22	34
42	31	36	47	39	21	33
41	30	35	46	38	20	32
40	29	34	45	37	20	32
39	29	33	44	36	19	31
38	28	32	43	35	19	30
37	27	31	41	34	18	29
36	27	31	40	34	18	28
35	26	30	39	33	17	28
34	25	29	38	32	17	27
33	25	28	37	31	16	26
32	24	27	36	30	16	25
31	23	26	34	29	15	24
30	22	26	33	28	14	24
29	22	25	32	27	14	23
28	21	24	31	26	13	22
27	20	23	30	26	13	21
26	20	22	28	25	12	20
25	19	21	27	24	12	20
24	18	20	26	23	11	19
23	18	20	25	22	11	18
22	17	19	24	21	10	17
21	16	18	23	20	10	16
20	16	17	21	19	9	16

TABLE 63. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR PARAGRAPH MEANING

PROCEDURE 1, LINEAR METHOD

SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM C COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
19	15	16	20	18	8	15
18	14	15	19	18	8	14
17	14	15	18	17	7	13
16	13	14	17	16	7	12
15	12	13	16	15	6	12
14	12	12	14	14	6	11
13	11	11	13	13	5	10
12	10	10	12	12	5	9
11	10	9	11	11	4	8
10	9	9	10	10	4	8
9	8	8	9	10	3	7
8	8	7	7	9	2	6
7	7	6	6	8	2	5
6	6	5	5	7	1	4
5	5	4	4	6	1	4
4	5	4	3	5	0	3
3	4	3	1	4	0	2
2	3	2	0	3	-1	1
1	3	1	-1	3	-1	0
0	2	0	-2	2	-2	0

TABLE 64. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 1, EQUIPERCENTILE METHOD

CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
42	45	67	45	30	48	58
41	44	65	45	29	46	57
40	43	63	44	29	45	56
39	42	61	44	28	44	54
38	42	59	43	27	43	52
37	41	58	43	27	42	51
36	40	57	42	26	40	50
35	40	55	42	25	39	49
34	39	54	41	24	38	47
33	38	52	40	24	37	46
32	37	50	40	23	35	44
31	36	49	39	22	34	43
30	35	47	38	21	33	41
29	34	45	38	20	32	40
28	34	44	37	19	31	39
27	33	42	36	18	29	37
26	31	40	35	17	28	36
25	30	38	33	16	26	34
24	29	36	32	15	25	33
23	27	34	31	14	23	31
22	25	31	29	13	22	29
21	24	29	27	13	21	27
20	22	27	26	12	20	26
19	21	25	24	11	19	24
18	19	24	22	11	18	23
17	18	22	21	10	17	21
16	16	21	19	9	16	20
15	15	20	18	9	15	19
14	14	18	16	8	14	17
13	13	17	15	7	13	16
12	12	16	14	7	12	15
11	11	15	12	6	11	14
10	10	14	11	5	10	13
9	9	13	10	5	9	11
8	8	11	8	4	8	10
7	7	10	7	3	7	8
6	6	8	6	3	6	7
5	5	6	5	2	5	5
4	4	5	4	2	4	4
3	3	4	3	1	3	3
2	2	3	2	1	2	2

TABLE 64. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 1, EQUIPERCENTILE METHOD

CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
1	1	1	1	0	2	1
0	0	0	0	0	1	0

TABLE 65. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 1, EQUIPERCENTILE METHOD

CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
45	42	67	45	30	48	58
44	41	65	45	29	46	57
43	40	63	44	29	45	56
42	39	60	43	28	43	53
41	37	58	43	27	42	51
40	36	56	42	26	40	49
39	34	54	41	25	38	48
38	33	52	40	24	37	46
37	32	50	40	23	35	44
36	31	49	39	21	34	43
35	30	47	38	20	33	41
34	29	45	37	19	31	39
33	28	43	36	19	30	38
32	27	41	35	18	29	37
31	26	40	34	17	27	36
30	25	38	33	16	26	34
29	24	37	32	16	25	33
28	24	35	31	15	24	32
27	23	34	31	14	23	31
26	22	32	30	14	22	30
25	22	31	29	13	22	29
24	21	30	28	13	21	28
23	20	28	26	12	20	26
22	20	27	25	12	19	25
21	19	26	24	11	19	24
20	19	24	23	11	18	23
19	18	23	22	10	17	22
18	17	22	21	10	17	21
17	17	21	20	10	16	20
16	16	20	19	9	15	19
15	15	19	17	8	14	18
14	14	18	16	8	14	17
13	13	17	15	7	13	16
12	12	16	13	7	12	15
11	11	15	12	6	11	14
10	10	14	11	5	10	12
9	9	13	9	4	9	11
8	8	11	8	4	8	9
7	7	9	7	3	6	8
6	6	8	6	2	5	6
5	5	6	5	2	4	5

TABLE 65. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 1, EQUIPERCENTILE METHOD

CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
4	4	5	4	2	4	4
3	3	4	3	1	3	3
2	2	3	2	1	2	2
1	1	1	1	0	2	1
0	0	0	0	0	1	0

TABLE 66. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 1, EQUIPERCENTILE METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
68	42	45	45	30	48	59
67	42	45	45	30	48	58
66	42	45	45	30	47	58
65	41	44	45	30	47	57
64	41	44	45	29	46	56
63	40	43	44	29	45	56
62	40	43	44	28	44	55
61	39	42	44	28	44	54
60	38	42	43	28	43	53
59	38	42	43	27	42	52
58	37	41	43	27	42	51
57	36	41	42	26	41	50
56	36	40	42	26	40	49
55	35	40	42	25	39	49
54	34	39	41	25	38	48
53	34	39	41	24	38	47
52	33	38	40	24	37	46
51	32	37	40	23	36	45
50	32	37	40	22	35	44
49	31	36	39	22	34	43
48	31	36	39	21	34	42
47	30	35	38	21	33	41
46	29	35	38	20	32	41
45	29	34	37	20	32	40
44	28	34	37	19	31	39
43	28	33	36	19	30	38
42	27	32	36	18	29	37
41	26	32	35	18	28	36
40	26	31	34	17	28	36
39	25	31	34	17	27	35
38	25	30	33	16	26	34
37	25	29	33	16	26	33
36	24	29	32	15	25	33
35	24	28	31	15	24	32
34	23	27	31	14	24	31
33	23	27	30	14	23	30
32	22	26	29	14	22	29
31	22	25	29	13	22	29
30	21	24	28	13	21	28
29	21	24	27	12	21	27
28	20	23	26	12	20	26

TABLE 66. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 1, EQUIPERCENTILE METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
27	20	22	25	12	19	25
26	19	21	25	11	19	25
25	19	20	24	11	18	24
24	18	20	23	11	18	23
23	18	19	22	10	17	22
22	17	18	21	10	17	21
21	16	17	20	9	16	20
20	15	16	19	9	15	19
19	15	15	17	8	14	18
18	14	14	16	8	14	17
17	13	13	15	7	13	16
16	12	12	13	7	12	15
15	11	11	12	6	11	14
14	10	10	11	5	10	13
13	9	9	10	5	9	11
12	8	9	9	4	8	10
11	8	8	8	4	8	9
10	7	7	7	3	7	8
9	6	7	6	3	6	7
8	6	6	6	3	6	7
7	5	6	5	2	5	6
6	5	5	4	2	4	5
5	4	4	4	2	4	4
4	3	3	3	1	3	3
3	2	2	2	1	3	2
2	2	2	1	0	2	2
1	1	1	1	0	1	1
0	0	0	0	0	1	0

TABLE 67. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING (COMPREHENSION

PROCEDURE 1, EQUIPERCENTILE METHOD

MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
45	42	45	66	30	47	57
44	40	43	62	28	44	55
43	38	42	59	27	42	52
42	36	40	56	26	40	50
41	34	39	54	24	38	47
40	33	37	51	23	36	45
39	31	36	49	22	34	43
38	30	35	47	20	33	41
37	28	34	44	19	31	39
36	27	33	43	18	30	38
35	26	32	41	18	28	36
34	26	31	39	17	27	35
33	25	30	38	16	26	34
32	24	29	36	15	25	33
31	23	28	34	15	24	31
30	23	27	33	14	23	30
29	22	26	32	13	22	29
28	22	25	30	13	21	28
27	21	24	29	12	21	27
26	20	23	28	12	20	26
25	20	22	27	12	19	25
24	19	21	25	11	19	24
23	18	20	24	11	18	23
22	18	19	23	10	17	22
21	17	18	22	10	17	21
20	17	17	21	10	16	20
19	16	16	20	9	15	20
18	15	15	20	9	15	19
17	14	15	19	8	14	18
16	14	14	18	8	14	17
15	13	13	17	7	13	16
14	12	13	17	7	12	16
13	12	12	16	6	12	15
12	11	11	15	6	11	14
11	10	10	14	5	10	13
10	9	10	13	5	9	12
9	9	9	12	4	8	10
8	8	8	11	4	8	9
7	7	7	10	3	7	8
6	6	6	8	3	6	7
5	5	6	7	2	5	5

TABLE 67. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING (COMPREHENSION

PROCEDURE 1, EQUIPERCENTILE METHOD

MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
4	4	5	5	2	4	4
3	3	3	4	1	3	3
2	2	2	3	1	2	2
1	1	1	2	0	2	1
0	0	0	0	0	1	0

TABLE 68. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR PART 2 (COMPREHENSION)

PROCEDURE 1, EQUIPERCENTILE METHOD

STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
30	42	45	66	45	48	58
29	41	44	64	45	46	56
28	39	42	61	44	44	55
27	38	42	59	43	42	52
26	36	40	57	42	41	50
25	35	39	55	41	39	48
24	34	38	53	41	37	47
23	32	37	51	40	36	45
22	31	37	49	39	35	43
21	30	36	48	39	33	42
20	29	35	46	38	32	40
19	28	34	44	37	31	39
18	27	32	42	36	29	37
17	26	31	40	34	27	36
16	25	30	38	33	26	34
15	24	28	36	32	25	32
14	23	27	33	30	23	30
13	22	25	31	28	21	28
12	20	23	28	26	20	26
11	19	21	25	24	18	24
10	17	18	22	21	17	22
9	16	16	20	19	15	19
8	14	15	19	17	14	18
7	13	13	17	14	13	16
6	11	11	15	12	11	14
5	10	10	14	11	10	12
4	8	9	12	9	8	10
3	7	7	10	7	7	8
2	5	5	6	5	5	5
1	3	3	4	3	3	3
0	1	1	1	1	1	1

TABLE 69. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 1, EQUIPERCENTILE METHOD

SRA (71 ED.) BLUE FORM E READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
48	42	45	67	45	30	58
47	42	45	66	45	30	57
46	41	44	64	45	29	57
45	40	43	63	44	29	56
44	39	43	62	44	28	55
43	39	42	60	43	28	53
42	38	41	59	43	27	52
41	37	41	57	42	26	51
40	36	40	56	42	26	49
39	35	40	55	41	25	48
38	34	39	54	41	24	47
37	33	38	52	41	24	46
36	33	37	51	40	23	45
35	32	37	50	39	22	44
34	31	36	49	39	22	43
33	30	35	47	38	21	41
32	29	35	46	38	20	40
31	28	34	44	37	19	39
30	28	33	43	36	19	38
29	27	32	42	36	18	37
28	26	32	41	35	17	36
27	26	31	39	34	17	35
26	25	30	38	33	16	34
25	24	29	36	32	15	33
24	24	28	35	31	15	32
23	23	27	33	30	14	30
22	22	26	32	29	13	29
21	21	24	30	28	13	28
20	20	23	28	26	12	26
19	20	21	26	25	11	25
18	18	20	24	23	11	23
17	18	18	23	22	10	22
16	17	17	21	20	10	20
15	15	16	20	18	9	19
14	14	15	19	17	8	18
13	13	13	17	15	7	16
12	12	12	16	14	7	15
11	11	11	15	12	6	14
10	10	10	14	11	5	13
9	9	9	13	10	5	11
8	8	8	12	9	4	10

TABLE 69. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 1, EQUIPERCENTILE METHOD

SRA (71 ED.) BLUE FORM E READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
7	7	8	10	8	3	9
6	6	7	9	6	3	7
5	6	6	7	5	2	6
4	4	5	6	4	2	4
3	3	3	4	3	1	3
2	2	2	2	2	0	2
1	0	0	0	0	0	0
0	0	0	0	0	0	0

TABLE 70. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR PARAGRAPH MEANING

PROCEDURE 1, EQUIPERCENTILE METHOD

SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
60	42	45	68	45	30	48
59	42	45	68	45	30	48
58	42	45	67	45	30	48
57	41	44	65	45	30	47
56	40	43	63	44	29	45
55	39	43	62	44	28	44
54	39	42	61	44	28	43
53	38	42	60	43	27	43
52	38	41	59	43	27	42
51	37	41	58	43	27	41
50	36	40	57	42	26	41
49	35	40	56	42	25	40
48	35	39	54	41	25	39
47	34	39	53	41	24	38
46	33	38	52	41	24	37
45	33	38	51	40	23	36
44	32	37	50	40	23	35
43	31	36	49	39	22	34
42	30	36	48	39	21	34
41	30	35	47	38	20	33
40	29	34	45	38	20	32
39	28	34	44	37	19	31
38	28	33	43	36	19	30
37	27	32	42	36	18	29
36	26	31	41	35	17	28
35	25	31	39	34	17	27
34	25	30	38	33	16	26
33	24	29	36	32	15	25
32	24	28	35	32	15	24
31	23	27	34	31	14	24
30	23	26	33	30	14	23
29	22	26	32	29	13	22
28	22	25	30	28	13	21
27	21	24	29	27	12	21
26	20	23	28	26	12	20
25	20	22	27	25	11	19
24	19	21	25	24	11	19
23	18	20	24	23	11	18
22	18	19	23	22	10	17
21	17	18	22	21	10	17
20	16	17	21	20	9	16

TABLE 70. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR PARAGRAPH MEANING

PROCEDURE I, EQUIPERCENTILE METHOD

SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
19	15	16	20	18	9	15
18	15	15	19	17	8	14
17	14	14	18	16	8	14
16	13	13	17	15	7	13
15	12	12	16	13	7	12
14	11	11	15	12	6	11
13	10	11	14	11	6	10
12	10	10	14	10	5	10
11	9	9	13	10	5	9
10	8	8	12	9	4	8
9	8	8	11	8	4	7
8	7	7	10	7	3	7
7	6	7	9	6	3	6
6	6	6	8	6	2	5
5	5	5	6	5	2	4
4	4	4	5	4	2	4
3	3	3	4	3	1	3
2	2	2	3	2	1	2
1	1	1	1	1	0	2
0	0	0	0	0	0	1

TABLE 71. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 2, LINEAR METHOD

CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
42	50	67	54	31	47	58
41	49	65	53	30	45	57
40	48	64	52	29	44	55
39	46	62	50	28	43	54
38	45	60	49	27	42	52
37	44	59	48	27	41	51
36	43	57	46	26	40	49
35	41	55	45	25	38	48
34	40	53	44	24	37	47
33	39	52	42	23	36	45
32	38	50	41	23	35	44
31	37	48	40	22	34	42
30	35	47	38	21	33	41
29	34	45	37	20	31	39
28	33	43	36	19	30	38
27	32	41	34	19	29	36
26	30	40	33	18	28	35
25	29	38	32	17	27	34
24	28	36	31	16	26	32
23	27	35	29	15	24	31
22	25	33	28	15	23	29
21	24	31	27	14	22	28
20	23	29	25	13	21	26
19	22	28	24	12	20	25
18	20	26	23	11	19	24
17	19	24	21	11	17	22
16	18	23	20	10	16	21
15	17	21	19	9	15	19
14	15	19	17	8	14	18
13	14	17	16	7	13	16
12	13	16	15	7	12	15
11	12	14	13	6	10	13
10	10	12	12	5	9	12
9	9	11	11	4	8	11
8	8	9	9	3	7	9
7	7	7	8	3	6	8
6	6	5	7	2	5	6
5	4	4	6	1	4	5
4	3	2	4	0	2	3
3	2	0	3	- 1	1	2
2	1	- 1	2	- 1	0	0

TABLE 71. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 2, LINEAR METHOD

CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
1	- 1	- 3	0	- 2	- 1	- 1
0	- 2	- 5	- 1	- 3	- 2	- 2

TABLE 72. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 2, LINEAR METHOD

CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
45	38	60	49	27	42	52
44	37	59	48	27	41	51
43	36	57	47	26	40	50
42	36	56	46	25	39	49
41	35	55	45	25	38	48
40	34	53	43	24	37	46
39	33	52	42	23	36	45
38	32	50	41	23	35	44
37	31	49	40	22	34	43
36	31	48	39	22	33	42
35	30	46	38	21	32	41
34	29	45	37	20	31	39
33	28	44	36	20	31	38
32	27	42	35	19	30	37
31	27	41	34	18	29	36
30	26	39	33	18	28	35
29	25	38	32	17	27	34
28	24	37	31	16	26	32
27	23	35	30	16	25	31
26	23	34	29	15	24	30
25	22	32	28	14	23	29
24	21	31	26	14	22	28
23	20	30	25	13	21	27
22	19	28	24	13	20	25
21	19	27	23	12	19	24
20	18	26	22	11	18	23
19	17	24	21	11	17	22
18	16	23	20	10	16	21
17	15	21	19	9	16	20
16	15	20	18	9	15	18
15	14	19	17	8	14	17
14	13	17	16	7	13	16
13	12	16	15	7	12	15
12	11	14	14	6	11	14
11	11	13	13	5	10	13
10	10	12	12	5	9	11
9	9	10	11	4	8	10
8	8	9	10	3	7	9
7	7	8	8	3	6	8
6	5	6	7	2	5	7
5	6	5	6	2	4	6

TABLE 72. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 2, LINEAR METHOD

CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
4	5	3	5	1	3	5
3	4	2	4	0	2	3
2	3	1	3	0	1	2
1	2	- 1	2	- 1	0	1
0	2	- 2	1	- 2	0	0

TABLE 73. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 2, LINEAR METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
68	43	51	55	31	47	59
67	42	50	54	31	46	58
66	41	49	53	30	46	57
65	41	49	52	30	45	56
64	40	48	52	29	44	55
63	40	47	51	29	44	55
62	39	46	50	28	43	54
61	38	46	49	28	42	53
60	38	45	49	27	42	52
59	37	44	48	27	41	51
58	37	44	47	26	40	50
57	36	43	46	26	40	50
56	36	42	46	25	39	49
55	35	41	45	25	38	48
54	34	41	44	25	38	47
53	34	40	43	24	37	46
52	33	39	43	24	36	45
51	33	38	42	23	36	[illegible]
50	32	38	41	23	35	44
49	31	37	40	22	34	43
48	31	36	39	22	34	42
47	30	36	39	21	33	41
46	30	35	38	21	32	40
45	29	34	37	20	32	39
44	29	33	36	20	31	39
43	28	33	36	19	30	38
42	27	32	35	19	30	37
41	27	31	34	18	29	36
40	26	31	33	18	28	35
39	26	30	33	18	27	34
38	25	29	32	17	27	34
37	24	28	31	17	26	33
36	24	28	30	16	25	32
35	23	27	30	16	25	31
34	23	26	29	15	24	30
33	22	25	28	15	23	29
32	22	25	27	14	23	29
31	21	24	26	14	22	28
30	20	23	26	13	21	27
29	20	23	25	13	21	26
28	19	22	24	12	20	25

TABLE 73. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 2, LINEAR METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
27	19	21	23	12	19	24
26	18	20	23	11	19	24
25	17	20	22	11	18	23
24	17	19	21	11	17	22
23	16	18	20	10	17	21
22	16	18	20	10	16	20
21	15	17	19	9	15	19
20	15	16	18	9	15	18
19	14	15	17	8	14	18
18	13	15	17	8	13	17
17	13	14	16	7	13	16
16	12	13	15	7	12	15
15	12	12	14	6	11	14
14	11	12	13	6	11	13
13	10	11	13	5	10	13
12	10	10	12	5	9	12
11	9	10	11	4	8	11
10	9	9	10	4	8	10
9	8	8	10	4	7	9
8	8	7	9	3	6	8
7	7	7	8	3	6	8
6	6	6	7	2	5	7
5	6	5	7	2	4	6
4	5	5	6	1	4	5
3	5	4	5	1	3	4
2	4	3	4	0	2	3
1	3	2	3	0	2	3
0	3	2	3	-1	1	2

TABLE 74. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING (COMPREHENSION

PROCEDURE 2, LINEAR METHOD

MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
45	35	42	55	25	39	48
44	34	41	54	24	38	47
43	34	40	53	24	37	46
42	33	39	51	23	36	45
41	32	38	50	23	35	44
40	31	37	49	22	34	43
39	31	36	47	21	33	42
38	30	35	46	21	32	40
37	29	34	45	20	31	39
36	28	33	44	20	31	38
35	28	32	42	19	30	37
34	27	31	41	18	29	36
33	26	30	40	18	28	35
32	25	29	38	17	27	34
31	24	28	37	17	26	33
30	24	27	36	16	25	32
29	23	26	34	15	24	31
28	22	26	33	15	23	29
27	21	25	32	14	23	28
26	21	24	31	14	22	27
25	20	23	29	13	21	26
24	19	22	28	12	20	25
23	18	21	27	12	19	24
22	18	20	25	11	18	23
21	17	19	24	10	17	22
20	16	18	23	10	16	21
19	15	17	21	9	15	20
18	15	16	20	9	15	18
17	14	15	19	8	14	17
16	13	14	17	7	13	16
15	12	13	16	7	12	15
14	12	12	15	6	11	14
13	11	11	14	6	10	13
12	10	10	12	5	9	12
11	9	9	11	4	8	11
10	8	9	10	4	7	10
9	8	8	8	3	7	9
8	7	7	7	3	6	8
7	6	6	6	2	5	6
6	5	5	4	1	4	5
5	5	4	3	1	3	4

TABLE 74. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING (COMPREHENSION

PROCEDURE 2, LINEAR METHOD

MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
4	4	3	2	0	2	3
3	3	2	0	0	1	2
2	2	1	- 1	- 1	0	1
1	2	0	- 2	- 2	0	0
0	1	- 1	- 3	- 2	- 1	- 1

TABLE 75. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR PART 2 (COMPREHENSION)

PROCEDURE 2, LINEAR METHOD

STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM C COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
30	41	49	66	53	46	57
29	40	48	64	52	44	55
28	39	46	62	50	43	53
27	38	45	60	48	41	52
26	36	43	57	47	40	50
25	35	41	55	45	38	48
24	34	40	53	43	37	46
23	33	38	51	42	36	44
22	31	37	49	40	34	43
21	30	35	47	38	33	41
20	29	34	44	37	31	39
19	28	32	42	35	30	37
18	26	31	40	33	28	35
17	25	29	38	32	27	34
16	24	28	36	30	25	32
15	23	26	34	29	24	30
14	21	24	32	27	22	28
13	20	23	29	25	21	26
12	19	21	27	24	20	25
11	18	20	25	22	18	23
10	16	18	23	20	17	21
9	15	17	21	19	15	19
8	14	15	19	17	14	17
7	13	14	17	15	12	16
6	11	12	14	14	11	14
5	10	10	12	12	9	12
4	9	9	10	10	8	10
3	8	7	8	9	6	8
2	6	6	6	7	5	7
1	5	4	4	6	4	5
0	4	3	2	4	2	3

TABLE 76. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 2, LINEAR METHOD

SRA (71 ED.) BLUE FORM E READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
48	43	52	69	56	32	60
47	42	51	68	55	31	59
46	42	50	66	54	30	57
45	41	49	65	52	30	56
44	40	47	63	51	29	55
43	39	46	62	50	28	54
42	38	45	61	49	28	53
41	37	44	59	48	27	51
40	36	43	58	47	26	50
39	36	42	56	46	25	49
38	35	41	55	45	25	48
37	34	40	53	43	24	46
36	33	39	52	42	23	45
35	32	38	50	41	23	44
34	31	37	49	40	22	43
33	30	36	47	39	21	41
32	30	35	46	38	21	40
31	29	34	44	37	20	39
30	28	33	43	35	19	38
29	27	31	41	34	19	36
28	26	30	40	33	18	35
27	25	29	38	32	17	34
26	24	28	37	31	17	33
25	24	27	35	30	16	31
24	23	26	34	29	15	30
23	22	25	33	28	14	29
22	21	24	31	26	14	28
21	20	23	30	25	13	26
20	19	22	28	24	12	25
19	18	21	27	23	12	24
18	18	20	25	22	11	23
17	17	19	24	21	10	22
16	16	18	22	20	10	20
15	15	17	21	19	9	19
14	14	16	19	17	8	18
13	13	14	18	16	8	17
12	12	13	16	15	7	15
11	12	12	15	14	6	14
10	11	11	13	13	6	13
9	10	10	12	12	5	12
8	9	9	10	11	4	10

TABLE 76. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 2, LINEAR METHOD

SRA (71 ED.) BLUE FORM E READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
7	8	8	9	10	3	9
6	7	7	7	8	3	8
5	6	6	6	7	2	7
4	6	5	5	6	1	5
3	5	4	3	5	1	4
2	4	3	2	4	0	3
1	3	2	0	3	-1	2
0	2	1	-1	2	-1	0

TABLE 77. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR PARAGRAPH MEANING

PROCEDURE 2, LINEAR METHOD

SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
60	43	52	70	56	32	48
59	43	51	68	55	31	47
58	42	50	67	54	31	47
57	41	49	66	53	30	46
56	41	48	65	52	29	45
55	40	48	64	51	29	44
54	39	47	62	50	28	43
53	39	46	61	50	28	42
52	38	45	60	49	27	42
51	37	44	59	48	27	41
50	36	43	58	47	26	40
49	36	42	56	46	26	39
48	35	41	55	45	25	38
47	34	41	54	44	25	38
46	34	40	53	43	24	37
45	33	39	52	42	23	36
44	32	38	50	41	23	35
43	32	37	49	40	22	34
42	31	36	48	40	22	34
41	30	35	47	39	21	33
40	30	35	46	38	21	32
39	29	34	45	37	20	31
38	28	33	43	36	20	30
37	27	32	42	35	19	30
36	27	31	41	34	18	29
35	26	30	40	33	18	28
34	25	29	39	32	17	27
33	25	29	37	31	17	26
32	24	28	36	30	16	26
31	23	27	35	29	16	25
30	23	26	34	29	15	24
29	22	25	33	28	15	23
28	21	24	31	27	14	22
27	21	23	30	26	13	21
26	20	23	29	25	13	21
25	19	22	28	24	12	20
24	18	21	27	23	12	19
23	18	20	25	22	11	18
22	17	19	24	21	11	17
21	16	18	23	20	10	17
20	16	17	22	19	10	16

TABLE 77. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR PARAGRAPH MEANING

PROCEDURE 2, LINEAR METHOD

SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
19	15	17	21	19	9	15
18	14	16	20	18	8	14
17	14	15	18	17	8	13
16	13	14	17	16	7	13
15	12	13	16	15	7	12
14	11	12	15	14	6	11
13	11	11	14	13	6	10
12	10	11	12	12	5	9
11	9	10	11	11	5	9
10	9	9	10	10	4	8
9	8	8	9	9	3	7
8	7	7	8	9	3	6
7	7	6	6	8	2	5
6	6	5	5	7	2	5
5	5	5	4	6	1	4
4	5	4	3	5	1	3
3	4	3	2	4	0	2
2	3	2	0	3	0	1
1	2	1	- 1	2	- 1	1
0	2	0	- 2	1	- 2	0

TABLE 76. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 2, EQUIPERCENTILE METHOD

CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
42	45	65	45	30	48	59
41	44	63	45	29	46	57
40	43	61	44	29	45	55
39	42	60	44	28	44	54
38	42	59	43	27	43	53
37	41	58	43	27	42	51
36	40	57	42	26	41	50
35	40	55	42	26	40	49
34	39	54	41	25	39	47
33	38	52	41	24	37	46
32	37	51	40	23	36	44
31	36	49	39	22	35	43
30	35	48	38	21	34	41
29	35	46	38	20	32	40
28	34	44	37	20	31	38
27	33	43	36	19	29	37
26	32	41	35	18	28	35
25	30	39	34	17	26	34
24	29	37	32	16	25	32
23	28	35	31	15	23	30
22	26	32	29	14	22	29
21	25	30	28	13	21	27
20	23	28	26	12	20	26
19	21	26	24	12	19	24
18	20	24	23	11	18	23
17	18	22	21	10	17	21
16	17	21	20	10	16	20
15	16	20	18	9	15	19
14	15	19	17	9	14	18
13	14	18	15	8	13	16
12	13	16	14	7	12	15
11	11	15	13	6	11	14
10	10	14	11	6	10	13
9	9	13	10	5	9	11
8	8	12	9	4	9	10
7	7	11	8	4	7	9
6	6	9	7	3	6	7
5	5	8	6	3	5	6
4	4	6	4	2	4	5
3	3	5	3	1	3	3
2	2	3	2	1	2	2

TABLE 78. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 2, EQUIPERCENTILE METHOD

CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
1	1	2	1	0	1	1
0	0	0	0	0	0	0

TABLE 79. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 2, EQUIPERCENTILE METHOD

CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
45	42	65	45	30	48	59
44	41	63	45	29	46	57
43	40	61	44	29	45	55
42	39	59	43	28	43	53
41	37	58	43	27	42	52
40	35	56	42	26	41	49
39	34	54	41	25	39	47
38	33	52	40	24	37	45
37	32	50	40	23	36	44
36	31	48	39	22	34	42
35	30	47	38	21	33	40
34	29	45	37	20	31	39
33	28	43	36	19	30	37
32	27	42	35	18	28	36
31	26	40	34	17	27	35
30	25	39	33	17	26	33
29	24	37	32	16	25	32
28	23	35	31	15	24	31
27	23	34	30	15	23	30
26	22	32	29	14	22	29
25	21	31	28	14	21	28
24	21	29	27	13	20	27
23	20	28	26	12	20	26
22	19	27	25	12	19	25
21	19	25	24	12	18	24
20	18	24	23	11	18	23
19	18	23	22	11	17	22
18	17	22	21	10	16	21
17	16	21	20	10	16	20
16	15	20	18	9	15	19
15	14	19	17	9	14	18
14	13	18	16	8	13	17
13	12	17	14	8	13	16
12	12	16	13	7	12	15
11	11	15	12	6	11	14
10	10	14	11	6	10	12
9	9	13	10	5	9	11
8	8	12	8	4	8	10
7	7	10	7	4	7	9
6	6	9	7	3	6	7
5	5	8	6	3	5	6

TABLE 79. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 2, EQUIPERCENTILE METHOD

CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
4	4	6	5	2	4	5
3	3	5	3	1	3	3
2	2	3	2	1	2	2
1	1	2	1	0	1	1
0	0	0	0	0	0	0

TABLE 80. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 2, EQUIPERCENTILE METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
68	42	45	45	30	48	60
67	42	45	45	30	48	60
66	42	45	45	30	48	60
65	42	45	45	30	47	59
64	41	44	45	30	47	58
63	41	44	45	29	46	57
62	40	43	44	29	45	56
61	40	43	44	29	44	54
60	39	42	44	28	44	54
59	38	42	43	28	43	53
58	37	41	43	27	42	52
57	36	41	42	27	42	51
56	36	40	42	26	41	50
55	35	40	41	25	40	48
54	34	39	41	25	39	47
53	33	39	41	24	38	46
52	33	38	40	24	37	46
51	32	38	40	23	36	45
50	32	37	40	23	36	44
49	31	36	39	22	35	43
48	30	36	39	22	34	42
47	30	35	38	21	33	40
46	29	35	38	21	32	40
45	29	34	37	20	31	39
44	28	33	37	19	30	38
43	27	33	36	19	30	37
42	27	32	36	18	29	36
41	26	32	35	18	28	35
40	26	31	34	17	27	35
39	25	30	34	17	26	34
38	25	30	33	16	26	33
37	24	29	33	16	25	32
36	24	29	32	16	24	31
35	23	28	31	15	24	31
34	23	27	31	15	23	30
33	22	27	30	14	22	29
32	22	26	29	14	22	28
31	21	25	28	14	21	28
30	21	24	28	13	21	27
29	21	24	27	13	20	26
28	20	23	26	12	20	26

TABLE 80. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 2, EQUIPERCENTILE METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
27	20	22	25	12	19	25
26	19	22	24	12	19	24
25	19	21	24	11	18	24
24	18	20	23	11	18	23
23	18	19	22	11	17	22
22	17	18	21	10	17	21
21	16	17	20	10	16	20
20	15	16	19	9	15	19
19	14	15	17	9	14	18
18	13	14	16	8	13	17
17	13	13	15	8	13	16
16	12	12	13	7	12	15
15	11	11	12	6	11	14
14	10	10	11	6	10	13
13	9	9	10	5	9	11
12	8	8	9	4	8	10
11	7	8	8	4	8	9
10	6	7	7	3	7	8
9	6	6	6	3	6	7
8	5	5	6	3	5	6
7	5	4	5	2	5	5
6	4	4	4	2	4	4
5	3	3	4	2	3	4
4	3	2	3	1	3	3
3	2	2	2	1	2	2
2	1	1	1	0	1	1
1	1	1	1	0	1	1
0	0	0	0	0	0	0

TABLE 81. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING (COMPREHENSION

PROCEDURE 2, EQUIPERCENTILE METHOD

MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.) RAW SCORE	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION EQUIVALENT SCORE	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION EQUIVALENT SCORE	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION EQUIVALENT SCORE	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.) EQUIVALENT SCORE	SRA (71 ED.) BLUE FORM E READING (COMPR.) EQUIVALENT SCORE	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING EQUIVALENT SCORE
45	42	45	65	30	47	58
44	40	43	61	28	44	54
43	38	42	59	27	43	52
42	36	40	56	26	41	50
41	34	39	54	25	39	47
40	32	38	51	23	36	45
39	31	36	49	22	35	42
38	30	35	47	21	33	40
37	28	34	45	20	31	39
36	27	33	43	19	29	37
35	26	32	41	18	28	36
34	25	31	40	17	27	34
33	25	30	38	16	26	33
32	24	29	36	16	24	32
31	23	28	35	15	23	30
30	22	27	33	14	23	29
29	22	26	32	14	22	28
28	21	25	31	13	21	27
27	21	24	29	13	20	27
26	20	23	28	12	20	26
25	19	22	27	12	19	25
24	19	21	26	12	19	24
23	18	20	24	11	18	23
22	18	19	23	11	17	22
21	17	18	22	10	17	21
20	16	17	21	10	16	20
19	16	17	20	9	15	20
18	15	16	20	9	15	19
17	14	15	19	9	14	18
16	14	14	18	8	14	17
15	13	13	17	8	13	16
14	12	13	17	7	12	15
13	11	12	16	7	12	14
12	11	11	15	6	11	14
11	10	10	14	6	10	13
10	9	9	13	5	10	12
9	8	9	12	5	9	11
8	7	8	11	4	8	9
7	6	7	10	3	7	8
6	6	6	9	3	6	6
5	5	5	7	2	5	5

TABLE 81. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING (COMPREHENSION

PROCEDURE 2, EQUIPERCENTILE METHOD

MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
4	4	4	6	2	4	4
3	3	3	4	1	3	3
2	2	2	3	1	2	2
1	1	1	2	0	1	1
0	0	0	0	0	0	0

TABLE 82. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR PART 2 (COMPREHENSION)

PROCEDURE 2, EQUIPERCENTILE METHOD

STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM C COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
30	42	45	65	45	48	59
29	41	44	62	44	46	56
28	39	42	60	44	44	54
27	37	41	58	43	42	52
26	36	40	56	42	41	50
25	34	39	54	41	39	48
24	33	38	52	40	37	46
23	32	37	50	40	35	44
22	31	36	49	39	34	42
21	30	35	47	38	33	40
20	29	34	45	37	31	39
19	28	33	43	36	30	37
18	26	32	42	35	28	36
17	25	31	40	34	27	34
16	24	29	37	33	25	32
15	23	28	35	31	23	31
14	22	26	32	29	22	29
13	21	24	30	27	20	27
12	20	22	27	25	19	25
11	18	20	24	23	18	23
10	17	18	22	20	16	21
9	15	16	20	18	15	19
8	13	14	18	16	13	17
7	12	12	16	14	12	15
6	10	11	15	12	11	13
5	9	9	13	10	9	12
4	8	8	11	8	8	10
3	6	6	9	7	6	7
2	4	4	6	5	4	5
1	2	2	4	3	2	3
0	0	0	1	1	0	1

TABLE 83. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 2, EQUIPERCENTILE METHOD

SRA (71 ED.) BLUE FORM E READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
48	42	45	66	45	30	60
47	42	45	65	45	30	58
46	41	44	63	45	29	57
45	40	43	62	44	29	55
44	39	43	60	44	28	54
43	38	42	59	43	28	53
42	37	41	58	43	27	51
41	36	40	56	42	26	50
40	35	40	55	42	26	49
39	34	39	54	41	25	48
38	33	39	53	41	24	47
37	33	38	52	40	24	45
36	32	37	51	40	23	44
35	31	37	49	39	23	43
34	30	36	48	39	22	42
33	30	35	47	38	21	40
32	29	35	46	38	20	39
31	28	34	45	37	20	39
30	28	33	44	36	19	38
29	27	32	43	36	19	37
28	26	32	41	35	18	36
27	26	31	40	34	17	35
26	25	30	39	33	17	33
25	24	29	37	33	16	32
24	23	28	36	32	15	31
23	23	27	34	31	15	30
22	22	26	32	29	14	29
21	21	25	31	28	13	27
20	20	23	29	27	13	26
19	19	22	26	25	12	25
18	18	20	25	23	11	23
17	17	19	23	22	11	22
16	16	17	21	20	10	20
15	15	16	20	18	9	19
14	14	15	19	17	9	18
13	13	14	17	15	8	16
12	12	12	16	14	7	15
11	11	11	15	12	6	14
10	10	10	14	11	5	12
9	9	9	13	10	5	11
8	8	8	12	8	4	10

TABLE 83. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 2, EQUIPERCENTILE METHOD

SRA (71 ED.) BLUE FORM E READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
7	7	7	10	7	3	8
6	6	6	9	6	3	7
5	5	5	8	5	2	6
4	4	4	6	4	2	4
3	3	3	5	3	1	3
2	2	2	3	2	1	2
1	1	1	2	1	0	1
0	0	0	0	0	0	0

TABLE 84. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR PARAGRAPH MEANING

PROCEDURE 2, EQUIPERCENTILE METHOD

SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
60	42	45	66	45	30	48
59	42	45	65	45	30	48
58	41	44	64	45	30	47
57	41	44	63	45	29	46
56	41	44	62	44	29	46
55	40	43	62	44	29	45
54	40	43	61	44	28	44
53	39	42	59	43	28	43
52	38	41	58	43	27	43
51	37	41	57	42	27	42
50	36	40	56	42	26	41
49	35	40	56	42	26	40
48	34	39	55	41	25	39
47	34	39	54	41	25	39
46	33	38	53	41	24	38
45	33	38	52	40	24	37
44	32	37	50	40	23	36
43	31	37	49	39	23	35
42	31	36	49	39	22	34
41	30	36	48	38	21	34
40	29	35	47	38	21	33
39	29	34	45	37	20	32
38	28	34	44	37	20	31
37	27	33	43	36	19	30
36	27	32	42	35	18	29
35	26	31	41	35	18	28
34	25	31	39	34	17	27
33	25	30	38	33	16	26
32	24	29	37	32	16	25
31	23	28	35	32	15	24
30	23	27	34	31	15	23
29	22	26	33	30	14	22
28	22	25	31	29	14	21
27	21	24	30	28	13	21
26	20	23	29	26	13	20
25	20	22	27	25	12	19
24	19	21	26	24	12	19
23	18	20	24	23	11	18
22	18	19	23	22	11	17
21	17	18	22	21	10	17
20	16	17	21	20	10	16

TABLE 84. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR PARAGRAPH MEANING

PROCEDURE 2, EQUIPERCENTILE METHOD

SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM C COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
19	15	16	20	18	9	15
18	14	15	19	17	9	14
17	14	14	18	16	8	14
16	13	13	17	15	8	13
15	12	12	16	14	7	12
14	11	11	15	13	6	11
13	10	11	14	12	6	11
12	9	10	14	10	5	10
11	9	9	13	10	5	9
10	8	8	12	9	4	8
9	7	7	11	8	4	8
8	6	7	10	7	3	7
7	6	6	9	6	3	6
6	5	5	8	6	3	5
5	5	4	7	5	2	5
4	4	4	6	4	2	4
3	3	3	4	3	1	3
2	2	2	3	2	1	2
1	1	1	2	1	0	1
0	0	0	0	0	0	0

TABLE 85. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 3, LINEAR METHOD

CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
42	49	66	53	30	45	57
41	48	64	52	29	44	56
40	46	63	50	29	43	54
39	45	61	49	28	42	53
38	44	59	48	27	41	51
37	43	58	46	26	40	50
36	42	56	45	25	38	49
35	40	54	44	25	37	47
34	39	52	43	24	36	46
33	38	51	41	23	35	44
32	37	49	40	22	34	43
31	35	47	39	21	32	41
30	34	46	37	21	31	40
29	33	44	36	20	30	38
28	32	42	35	19	29	37
27	30	41	33	18	28	35
26	29	39	32	18	27	34
25	28	37	31	17	25	33
24	27	35	30	16	24	31
23	25	34	28	15	23	30
22	24	32	27	14	22	28
21	23	30	26	14	21	27
20	22	29	24	13	20	25
19	20	27	23	12	18	24
18	19	25	22	11	17	22
17	18	23	20	10	16	21
16	17	22	19	10	15	19
15	15	20	18	9	14	18
14	14	18	17	8	13	17
13	13	17	15	7	11	15
12	12	15	14	6	10	14
11	11	13	13	6	9	12
10	9	11	11	5	8	11
9	8	10	10	4	7	9
8	7	8	9	3	6	8
7	6	6	7	2	4	6
6	4	5	6	2	3	5
5	3	3	5	1	2	3
4	2	1	4	0	1	2
3	1	- 1	2	- 1	0	1
2	- 1	- 2	1	- 2	- 1	- 1

TABLE 85. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 3, LINEAR METHOD

CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
1	- 2	- 4	0	- 2	- 3	- 2
0	- 3	- 6	- 2	- 3	- 4	- 4

TABLE 86. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 3, LINEAR METHOD

CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
45	39	61	49	28	42	53
44	38	59	48	27	41	52
43	37	58	47	26	40	50
42	36	57	46	26	39	49
41	36	55	45	25	38	48
40	35	54	44	25	37	47
39	34	53	43	24	35	46
38	33	51	42	23	35	45
37	32	50	40	23	34	43
36	32	48	39	22	33	42
35	31	47	38	21	32	41
34	30	46	37	21	31	40
33	29	44	36	20	30	39
32	28	43	35	19	29	37
31	28	41	34	19	28	36
30	27	40	33	18	28	35
29	26	39	32	17	27	34
28	25	37	31	17	26	33
27	24	36	30	16	25	32
26	24	35	29	16	24	30
25	23	33	28	15	23	29
24	22	32	27	14	22	28
23	21	30	26	14	21	27
22	20	29	25	13	20	26
21	20	28	24	12	19	25
20	19	26	23	12	18	23
19	18	25	22	11	17	22
18	17	24	21	10	16	21
17	16	22	20	10	15	20
16	15	21	18	9	14	19
15	15	19	17	8	13	17
14	14	18	16	8	12	16
13	13	17	15	7	11	15
12	12	15	14	7	10	14
11	11	14	13	6	10	13
10	11	12	12	5	9	12
9	10	11	11	5	8	10
8	9	10	10	4	7	9
7	8	8	9	3	6	8
6	7	7	8	3	5	7
5	7	6	7	2	4	6

TABLE 86. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 3, LINEAR METHOD

CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
4	6	4	6	1	3	5
3	5	3	5	1	2	3
2	4	1	4	0	1	2
1	3	0	3	- 1	0	1
0	3	- 1	2	- 1	- 1	0

TABLE 87. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 3, LINEAR METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM C COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
68	43	50	54	31	47	59
67	43	50	54	31	46	58
66	42	49	53	30	45	57
65	41	48	52	30	45	56
64	41	47	51	29	44	55
63	40	47	51	29	43	55
62	40	46	50	28	43	54
61	39	45	49	28	42	53
60	38	44	48	27	41	52
59	38	44	48	27	40	51
58	37	43	47	26	40	50
57	37	42	46	26	39	50
56	36	42	45	26	38	49
55	35	41	44	25	38	48
54	35	40	44	25	37	47
53	34	39	43	24	36	46
52	34	39	42	24	36	45
51	33	38	41	23	35	44
50	33	37	41	23	34	44
49	32	37	40	22	34	43
48	31	36	39	22	33	42
47	31	35	38	21	32	41
46	30	34	38	21	32	40
45	30	34	37	20	31	39
44	29	33	36	20	30	38
43	29	32	35	19	30	38
42	28	31	35	19	29	37
41	27	31	34	19	28	36
40	27	30	33	18	27	35
39	26	29	32	18	27	34
38	26	29	32	17	26	33
37	25	28	31	17	25	33
36	24	27	30	16	25	32
35	24	26	29	16	24	31
34	23	26	29	15	23	30
33	23	25	28	15	23	29
32	22	24	27	14	22	28
31	22	24	26	14	21	27
30	21	23	26	13	21	27
29	20	22	25	13	20	26
28	20	21	24	12	19	25

TABLE 87. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 3, LINEAR METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
27	19	21	23	12	19	24
26	19	20	22	12	18	23
25	18	19	22	11	17	22
24	17	18	21	11	17	21
23	17	18	20	10	16	21
22	16	17	19	10	15	20
21	16	16	19	9	14	19
20	15	16	18	9	14	18
19	15	15	17	8	13	17
18	14	14	16	8	12	16
17	13	13	16	7	12	16
16	13	13	15	7	11	15
15	12	12	14	6	10	14
14	12	11	13	6	10	13
13	11	10	13	6	9	12
12	10	10	12	5	8	11
11	10	9	11	5	8	10
10	9	8	10	4	7	10
9	9	8	10	4	6	9
8	8	7	9	3	6	8
7	7	6	8	3	5	7
6	7	5	7	2	4	6
5	6	5	7	2	4	5
4	6	4	6	1	3	4
3	5	3	5	1	2	4
2	5	3	4	0	1	3
1	4	2	4	0	1	2
0	3	1	3	-1	0	1

TABLE 88. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING (COMPREHENSION

PROCEDURE 3, LINEAR METHOD

MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
45	36	41	56	25	38	48
44	35	40	54	25	37	47
43	34	40	53	24	[illegible]	46
42	34	39	52	24	36	45
41	33	38	51	23	35	44
40	32	37	49	22	34	43
39	31	36	48	22	33	42
38	31	35	47	21	32	41
37	30	34	45	21	31	40
36	29	33	44	20	30	38
35	28	32	43	19	29	37
34	28	31	41	19	28	36
33	27	30	40	18	27	35
32	26	29	39	17	27	34
31	25	28	37	17	26	33
30	24	27	36	16	25	32
29	24	26	35	16	24	31
28	23	25	33	15	23	29
27	22	24	32	14	22	28
26	21	23	31	14	21	27
25	21	22	29	13	20	26
24	20	21	28	13	19	25
23	19	20	27	12	18	24
22	18	19	25	11	18	23
21	17	19	24	11	17	22
20	17	18	23	10	16	20
19	16	17	22	9	15	19
18	15	16	20	9	14	18
17	14	15	19	8	13	17
16	14	14	18	8	12	16
15	13	13	16	7	11	15
14	12	12	15	6	10	14
13	11	11	14	6	9	13
12	11	10	12	5	8	11
11	10	9	11	5	8	10
10	9	8	10	4	7	9
9	8	7	8	3	6	8
8	7	6	7	3	5	7
7	7	5	6	2	4	6
6	6	4	4	1	3	5
5	5	3	3	1	2	4

TABLE 88. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING (COMPREHENSION

PROCEDURE 3, LINEAR METHOD

MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM C COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
4	4	2	2	0	1	3
3	4	1	0	0	0	1
2	3	0	- 1	- 1	- 1	0
1	2	- 1	- 2	- 2	- 1	- 1
0	1	- 2	- 4	- 2	- 2	- 2

TABLE 89. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR PART 2 (COMPREHENSION)

PROCEDURE 3, LINEAR METHOD

STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM C COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
30	42	49	66	53	45	57
29	41	47	64	51	44	55
28	39	46	61	49	42	53
27	38	44	59	48	41	51
26	37	42	57	46	39	50
25	36	41	55	44	38	48
24	34	39	53	43	36	46
23	33	38	51	41	35	44
22	32	36	49	40	33	42
21	31	35	46	38	32	40
20	29	33	44	36	30	39
19	28	32	42	35	29	37
18	27	30	40	33	27	35
17	25	28	38	31	26	33
16	24	27	36	30	24	31
15	23	25	34	28	23	30
14	22	24	31	27	22	28
13	20	22	29	25	20	26
12	19	21	27	23	19	24
11	18	19	25	22	17	22
10	17	18	23	20	16	20
9	15	16	21	18	14	19
8	14	14	19	17	13	17
7	13	13	16	15	11	15
6	12	11	14	13	10	13
5	10	10	12	12	8	11
4	9	8	10	10	7	9
3	8	7	8	9	5	8
2	7	5	6	7	4	6
1	5	4	3	5	2	4
0	4	2	1	4	1	2

TABLE 90. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 3, LINEAR METHOD

SRA (71 ED.) BLUE FORM E READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
48	44	52	70	56	32	61
47	43	51	69	55	31	59
46	43	50	67	54	31	58
45	42	49	66	53	30	57
44	41	48	64	51	29	56
43	40	46	63	50	29	54
42	39	45	61	49	28	53
41	38	44	60	48	27	52
40	38	43	58	47	27	51
39	37	42	57	46	26	[illegible]
38	36	41	55	45	25	48
37	35	40	54	44	25	47
36	34	39	53	43	24	46
35	33	38	51	41	23	44
34	32	37	50	40	23	43
33	32	36	48	39	22	42
32	31	35	47	38	21	41
31	30	34	45	37	21	40
30	29	33	44	36	20	38
29	28	32	42	35	19	37
28	27	31	41	34	18	36
27	26	30	39	33	18	35
26	25	29	38	32	17	33
25	25	27	36	30	16	32
24	24	26	35	29	16	31
23	23	25	34	28	15	30
22	22	24	32	27	14	28
21	21	23	31	26	14	27
20	20	22	29	25	13	26
19	20	21	28	24	12	25
18	19	20	26	23	12	23
17	18	19	25	22	11	22
16	17	18	23	20	10	21
15	16	17	22	19	10	20
14	15	16	20	18	9	18
13	14	15	19	17	8	17
12	14	14	18	16	8	16
11	13	13	16	15	7	15
10	12	12	15	14	6	13
9	11	11	13	13	6	12
8	10	9	12	12	5	11

TABLE 90. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 3, LINEAR METHOD

SRA (71 ED.) BLUE FORM E READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM C COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
7	9	8	10	10	4	10
6	8	7	9	9	4	8
5	8	6	7	8	3	7
4	7	5	6	7	2	6
3	6	4	4	6	1	5
2	5	3	3	5	1	3
1	4	2	1	4	0	2
0	3	1	0	3	-1	1

TABLE 91. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR PARAGRAPH MEANING

PROCEDURE 3, LINEAR METHOD

SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM C COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
60	44	51	69	55	32	48
59	43	50	68	54	31	47
58	43	50	67	54	31	46
57	42	49	66	53	30	45
56	41	48	65	52	30	44
55	41	47	64	51	29	44
54	40	46	62	50	28	43
53	39	45	61	49	28	42
52	38	44	60	48	27	41
51	38	44	59	47	27	40
50	37	43	58	46	26	40
49	36	42	56	46	26	39
48	36	41	55	45	25	38
47	35	40	54	44	25	37
46	34	39	53	43	24	36
45	34	39	52	42	24	36
44	33	38	51	41	23	35
43	32	37	49	40	22	34
42	32	36	48	39	22	33
41	31	35	47	38	21	32
40	30	34	46	38	21	31
39	30	33	45	37	20	31
38	29	33	44	36	20	30
37	28	32	42	35	19	29
36	27	31	41	34	19	28
35	27	30	40	33	18	27
34	26	29	39	32	18	27
33	25	28	38	31	17	26
32	25	27	36	30	16	25
31	24	27	35	30	16	24
30	23	26	34	29	15	23
29	23	25	33	28	15	23
28	22	24	32	27	14	22
27	21	23	31	26	14	21
26	21	22	29	25	13	20
25	20	21	28	24	13	19
24	19	21	27	23	12	19
23	19	20	26	22	11	18
22	18	19	25	21	11	17
21	17	18	24	21	10	15
20	16	17	22	20	10	15

TABLE 91. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR PARAGRAPH MEANING

PROCEDURE 3, LINEAR METHOD

SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
19	16	16	21	19	9	15
18	15	16	20	18	9	14
17	14	15	19	17	8	13
16	14	14	18	16	8	12
15	13	13	17	15	7	11
14	12	12	15	14	7	11
13	12	11	14	13	6	10
12	11	10	13	13	5	9
11	10	10	12	12	5	8
10	10	9	11	11	4	7
9	9	8	9	10	4	7
8	8	7	8	9	3	6
7	8	6	7	8	3	5
6	7	5	6	7	2	4
5	6	4	5	6	2	3
4	5	4	4	5	1	3
3	5	3	2	5	1	2
2	4	2	1	4	0	1
1	3	1	0	3	- 1	0
0	3	0	- 1	2	- 1	- 1

TABLE 92. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 3, EQUIPERCENTILE METHOD

CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
42	45	66	45	30	48	59
41	44	64	45	29	46	57
40	43	62	44	29	45	55
39	42	60	44	28	44	54
38	42	59	43	27	42	52
37	41	57	42	27	41	51
36	40	56	42	26	40	49
35	39	55	41	25	39	48
34	38	53	41	25	38	46
33	38	52	40	24	36	45
32	37	50	39	23	35	43
31	36	48	39	22	33	42
30	35	47	38	21	32	40
29	34	45	37	20	30	39
28	33	43	36	19	29	37
27	31	41	35	18	27	36
26	30	40	34	17	26	34
25	29	37	33	16	24	32
24	27	35	31	15	23	31
23	26	33	30	14	22	29
22	24	31	28	14	20	27
21	23	29	26	13	19	26
20	21	27	25	12	18	24
19	20	25	23	11	17	23
18	18	23	21	11	16	21
17	17	21	20	10	16	20
16	16	20	19	9	15	19
15	15	19	17	9	14	18
14	14	18	16	8	13	17
13	13	17	15	8	12	16
12	12	16	13	7	11	15
11	11	15	12	6	11	13
10	10	14	11	6	10	12
9	9	13	10	5	9	11
8	8	12	8	4	8	9
7	7	10	7	3	7	8
6	6	8	6	3	6	6
5	5	7	5	2	4	5
4	4	5	4	2	4	4
3	3	4	3	1	3	3
2	2	3	2	1	2	2

TABLE 92. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 3, EQUIPERCENTILE METHOD

CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
1	1	2	1	0	1	1
0	0	0	0	0	0	0

TABLE 93. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 3, EQUIPERCENTILE METHOD

CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
45	42	66	45	30	48	59
44	41	64	45	29	46	57
43	40	62	44	29	45	55
42	39	60	43	28	43	53
41	37	58	43	27	42	51
40	36	56	42	26	40	49
39	35	54	41	25	38	48
38	34	52	41	24	37	46
37	32	51	40	23	35	44
36	31	49	39	22	34	42
35	30	47	38	21	32	41
34	29	46	37	20	31	39
33	28	44	36	20	29	38
32	28	42	36	19	28	36
31	27	41	35	18	27	35
30	26	39	34	17	26	34
29	25	38	33	16	25	33
28	24	36	32	16	23	31
27	24	35	31	15	23	30
26	23	33	30	15	22	29
25	23	32	29	14	21	28
24	22	31	28	13	20	27
23	21	29	27	13	20	26
22	21	28	26	12	19	25
21	20	27	24	12	18	24
20	19	25	23	12	18	23
19	19	24	22	11	17	22
18	18	23	21	11	16	21
17	17	22	20	10	16	20
16	16	21	19	10	15	19
15	15	20	18	9	14	18
14	14	19	16	8	13	17
13	13	17	15	8	13	16
12	12	16	14	7	12	15
11	11	15	12	6	11	14
10	10	14	11	6	10	13
9	9	13	10	5	9	11
8	8	12	9	4	8	10
7	7	10	7	3	7	8
6	6	9	6	3	6	7
5	5	7	5	2	5	5

TABLE 93. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 3, EQUIPERCENTILE METHOD

CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
4	4	6	4	2	4	4
3	3	4	3	1	3	3
2	2	3	2	1	2	2
1	1	2	1	0	1	1
0	0	0	0	0	0	0

TABLE 94. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 3, EQUIPERCENTILE METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
68	42	45	45	30	48	60
67	42	45	45	30	48	60
66	42	45	45	30	48	59
65	41	44	45	30	47	58
64	41	44	45	29	46	57
63	41	44	44	29	46	56
62	40	43	44	29	45	55
61	40	43	44	28	44	54
60	39	42	44	28	43	53
59	38	42	43	28	43	52
58	38	41	43	27	42	51
57	37	41	42	27	41	50
56	36	40	42	26	40	49
55	35	39	42	26	39	48
54	35	39	41	25	38	47
53	34	38	41	25	37	46
52	33	38	40	24	37	45
51	33	37	40	24	36	44
50	32	37	40	23	35	43
49	32	36	39	22	34	42
48	31	36	39	22	33	41
47	30	35	38	21	32	40
46	30	34	38	21	31	40
45	29	34	37	20	30	39
44	29	33	37	20	30	38
43	28	33	36	19	29	37
42	27	32	35	19	28	36
41	27	31	35	18	27	35
40	26	31	34	18	26	34
39	26	30	33	17	26	34
38	25	29	33	17	25	33
37	25	29	32	16	24	32
36	24	28	32	16	23	31
35	24	27	31	15	23	31
34	24	27	30	15	22	30
33	23	26	30	14	22	29
32	23	25	29	14	21	28
31	22	24	28	14	21	27
30	22	24	27	13	20	27
29	21	23	26	13	20	26
28	21	22	26	12	19	25

TABLE 94. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 3, EQUIPERCENTILE METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
27	20	21	25	12	19	24
26	20	21	24	12	18	24
25	19	20	23	11	18	23
24	19	19	22	11	17	22
23	18	18	22	11	17	21
22	18	17	21	10	16	21
21	17	16	20	10	15	20
20	16	16	18	9	15	19
19	15	14	17	9	14	17
18	14	14	16	8	13	17
17	13	13	14	8	12	16
16	12	12	13	7	12	15
15	11	11	12	6	11	14
14	10	10	11	6	10	12
13	9	9	10	5	9	11
12	8	8	9	4	8	10
11	8	8	8	4	7	9
10	7	7	7	3	7	8
9	6	6	7	3	6	7
8	6	6	6	3	5	6
7	5	5	5	2	5	5
6	4	4	4	2	4	4
5	4	4	4	2	3	4
4	3	3	3	1	3	3
3	2	2	2	1	2	2
2	1	1	1	0	1	1
1	1	1	1	0	1	1
0	0	0	0	0	0	0

TABLE 95. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING (COMPREHENSION

PROCEDURE 3, EQUIPERCENTILE METHOD

MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
45	42	45	65	30	47	59
44	40	43	61	28	44	55
43	38	42	59	27	42	52
42	36	40	56	26	40	50
41	34	39	54	25	38	47
40	33	37	51	24	36	45
39	32	36	49	22	34	43
38	30	35	47	21	32	40
37	29	34	45	20	30	39
36	28	33	43	19	29	37
35	27	32	42	18	27	36
34	26	31	40	17	26	34
33	25	29	38	17	25	33
32	25	28	37	16	24	32
31	24	27	35	15	23	31
30	23	26	34	15	22	30
29	23	25	32	14	21	28
28	22	24	31	14	21	28
27	22	23	30	13	20	27
26	21	23	28	13	19	26
25	20	22	27	12	19	25
24	20	21	26	12	18	24
23	19	20	25	11	18	23
22	19	19	24	11	17	22
21	18	18	23	10	16	21
20	17	17	21	10	15	20
19	16	16	21	10	15	19
18	16	15	20	9	14	18
17	15	15	19	9	14	18
16	14	14	18	8	13	17
15	13	13	18	8	13	16
14	13	12	17	7	12	15
13	12	12	16	7	11	14
12	11	11	15	6	11	14
11	10	10	14	6	10	12
10	9	9	13	5	9	11
9	9	8	12	4	8	10
8	8	8	11	4	7	9
7	7	7	10	3	6	8
6	6	6	8	3	5	6
5	5	5	7	2	4	5

TABLE 95. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING (COMPREHENSION

PROCEDURE 3, EQUIPERCENTILE METHOD

MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
4	4	4	5	2	4	4
3	3	3	4	1	3	3
2	2	2	3	1	2	2
1	1	1	2	0	1	1
0	0	0	0	0	0	0

TABLE 96. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR PART 2 (COMPREHENSION)

PROCEDURE 3, EQUIPERCENTILE METHOD

STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
30	42	45	66	45	48	59
29	41	44	63	44	46	56
28	39	42	60	44	44	54
27	38	41	58	43	42	51
26	36	40	56	42	40	49
25	35	39	54	41	38	47
24	33	38	52	40	37	45
23	32	37	50	40	35	43
22	31	36	48	39	33	42
21	30	35	47	38	32	40
20	29	34	45	37	30	39
19	28	32	43	36	29	37
18	27	31	41	35	27	35
17	26	30	39	33	25	34
16	25	28	37	32	24	32
15	24	27	34	31	22	30
14	23	25	32	29	21	28
13	21	23	30	27	20	26
12	20	21	27	25	19	24
11	19	19	24	22	17	22
10	17	17	21	20	16	20
9	15	15	20	18	14	18
8	14	14	18	15	13	16
7	12	12	16	13	12	15
6	11	11	15	12	10	13
5	9	9	13	10	9	11
4	8	8	11	8	8	9
3	7	7	9	7	6	7
2	5	4	6	5	4	5
1	3	2	4	3	2	3
0	1	1	1	1	0	1

TABLE 97. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 3, EQUIPERCENTILE METHOD

SRA (71 ED.) BLUE FORM E READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
48	42	45	67	45	30	60
47	42	45	65	45	30	58
46	41	44	64	45	29	57
45	40	43	62	44	29	56
44	39	43	61	44	28	54
43	39	42	60	43	28	53
42	38	41	58	43	27	52
41	37	41	57	42	27	50
40	36	40	56	42	26	49
39	35	39	55	42	25	48
38	34	39	54	41	25	47
37	34	38	53	41	24	46
36	33	38	51	40	24	45
35	32	37	50	40	23	44
34	32	36	49	39	22	43
33	31	36	48	39	22	41
32	30	35	47	38	21	40
31	30	34	46	37	20	39
30	29	33	45	37	20	38
29	28	33	43	36	19	37
28	28	32	42	36	19	36
27	27	31	41	35	18	35
26	26	30	40	34	17	34
25	26	30	38	33	17	33
24	25	29	37	32	16	32
23	24	28	35	31	15	31
22	23	26	34	30	15	30
21	23	25	32	29	14	28
20	22	24	30	27	13	27
19	21	22	28	26	12	25
18	20	21	26	24	12	24
17	19	19	24	22	11	22
16	18	17	22	21	10	21
15	16	16	21	19	10	19
14	15	15	19	17	9	18
13	14	14	18	16	8	17
12	13	12	17	14	7	15
11	12	11	15	13	7	14
10	10	10	14	11	6	13
9	9	9	13	10	5	11
8	8	8	12	9	4	10

TABLE 97. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

PROCEDURE 3, EQUIPERCENTILE METHOD

SRA (71 ED.) BLUE FORM E READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
7	7	7	11	8	4	9
6	7	7	9	7	3	7
5	6	5	8	6	3	6
4	5	4	6	5	2	5
3	3	3	5	3	1	3
2	2	2	3	2	1	2
1	1	1	2	1	0	1
0	0	0	0	0	0	0

TABLE 98. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR PARAGRAPH MEANING

PROCEDURE 3, EQUIPERCENTILE METHOD

SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
60	42	45	67	45	30	48
59	42	45	66	45	30	48
58	41	44	65	45	30	47
57	41	44	64	45	29	46
56	40	43	63	44	29	45
55	40	43	62	44	29	45
54	39	42	61	44	28	44
53	39	42	60	43	28	43
52	38	41	59	43	27	42
51	37	41	58	43	27	41
50	37	40	57	42	26	41
49	36	40	56	42	26	40
48	35	39	55	41	25	39
47	34	39	54	41	25	38
46	34	38	53	41	24	37
45	33	38	52	40	24	36
44	33	37	51	40	23	35
43	32	37	50	39	23	34
42	31	36	49	39	22	34
41	31	35	48	38	22	33
40	30	35	47	38	21	32
39	29	34	45	37	20	31
38	29	33	44	37	20	30
37	28	33	43	36	19	29
36	27	32	42	35	18	28
35	27	31	41	35	18	27
34	26	30	39	34	17	26
33	25	29	38	33	17	25
32	25	29	37	32	16	24
31	24	28	36	31	16	23
30	24	27	34	31	15	22
29	23	26	33	30	15	22
28	23	25	32	29	14	21
27	22	24	30	28	13	20
26	21	23	29	27	13	20
25	21	22	28	26	12	19
24	20	21	27	24	12	18
23	19	20	25	23	11	18
22	19	19	24	22	11	17
21	18	18	23	21	11	16
20	17	17	21	20	10	16

TABLE 98. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR PARAGRAPH MEANING

PROCEDURE 3, EQUIPERCENTILE METHOD

SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
19	16	16	20	19	10	15
18	15	15	20	18	9	14
17	14	14	19	16	8	13
16	13	13	17	15	8	13
15	12	12	16	14	7	12
14	12	11	15	13	7	11
13	11	10	15	12	6	10
12	10	10	14	11	5	10
11	9	9	13	10	5	9
10	8	8	12	9	4	8
9	8	8	11	8	4	7
8	7	7	10	7	3	7
7	6	6	9	7	3	6
6	6	6	8	6	3	5
5	5	5	7	5	2	4
4	4	4	5	4	2	4
3	3	3	4	3	1	3
2	2	2	3	2	1	2
1	1	1	2	1	0	1
0	0	0	0	0	0	0

TABLE 99. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
42	50	67	54	30	47	59
41	49	65	53	30	45	57
40	48	64	51	29	44	56
39	46	62	50	28	43	54
38	45	60	49	27	42	53
37	44	59	47	26	41	51
36	43	57	46	26	40	50
35	41	55	45	25	38	48
34	40	53	43	24	37	47
33	39	52	42	23	36	45
32	38	50	41	22	35	44
31	36	48	40	22	34	42
30	35	46	38	21	33	41
29	34	45	37	20	31	40
28	33	43	36	19	30	38
27	31	41	34	18	29	37
26	30	40	33	18	28	35
25	29	38	32	17	27	34
24	28	36	30	16	26	32
23	26	34	29	15	24	31
22	25	33	28	14	23	29
21	24	31	26	14	22	28
20	23	29	25	13	21	26
19	21	28	24	12	20	25
18	20	26	23	11	19	24
17	19	24	21	10	17	22
16	18	22	20	10	16	21
15	16	21	19	9	15	19
14	15	19	17	8	14	18
13	14	17	16	7	13	16
12	13	15	15	6	12	15
11	12	14	13	6	10	13
10	10	12	12	5	9	12
9	9	10	11	4	8	10
8	8	9	9	3	7	9
7	7	7	8	2	6	8
6	5	5	7	2	4	6
5	4	3	6	1	3	5
4	3	2	4	0	2	3
3	2	0	3	- 1	1	2
2	0	- 2	2	- 2	0	0

TABLE 99. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
1	- 1	- 3	0	- 2	- 1	- 1
0	- 2	- 5	- 1	- 3	- 2	- 3

TABLE 100. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
45	38	60	49	27	42	53
44	37	59	48	27	41	52
43	36	57	47	26	40	50
42	36	56	46	25	39	49
41	35	55	45	25	38	48
40	34	53	43	24	37	47
39	33	52	43	23	36	46
38	32	51	[illegible]	23	35	44
37	32	49	41	22	34	43
36	31	48	40	21	33	42
35	30	46	39	21	32	41
34	29	45	38	20	32	40
33	28	44	37	19	31	39
32	28	42	36	19	30	37
31	27	41	35	18	29	36
30	26	39	34	18	28	35
29	25	38	33	17	27	34
28	24	37	32	16	26	33
27	24	35	31	16	25	32
26	23	34	30	15	24	30
25	22	33	29	14	23	29
24	21	31	28	14	22	28
23	20	30	27	13	21	27
22	20	28	26	12	20	26
21	19	27	24	12	19	25
20	18	26	23	11	[illegible]	23
19	17	24	22	10	17	22
18	16	23	21	10	16	21
17	16	21	20	9	16	20
16	15	20	19	9	15	19
15	14	19	18	8	14	17
14	13	17	17	7	13	16
13	12	16	16	7	12	15
12	12	14	15	6	11	14
11	11	13	14	5	10	13
10	10	12	13	5	9	12
9	9	10	12	4	8	10
8	8	9	11	3	7	9
7	7	8	10	3	6	8
6	7	6	9	2	5	7
5	6	5	8	1	4	6

TABLE 100. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
4	5	3	6	1	3	5
3	4	2	4	0	2	3
2	3	1	3	0	1	2
1	3	- 1	2	- 1	0	1
0	2	- 2	1	- 2	0	0

TABLE 101. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
68	43	51	55	31	47	59
67	42	50	54	30	47	58
66	41	49	53	30	46	58
65	41	49	52	29	45	57
64	40	48	52	29	44	56
63	40	47	51	29	44	55
62	39	46	50	28	43	54
61	39	46	49	28	42	53
60	38	45	49	27	42	53
59	37	44	48	27	41	52
58	37	44	47	26	40	51
57	36	43	46	26	40	50
56	36	42	46	25	39	49
55	35	41	45	25	38	48
54	34	41	44	24	38	47
53	34	40	43	24	37	47
52	33	39	43	23	36	46
51	33	38	42	23	36	45
50	32	38	41	22	35	44
49	32	37	40	22	34	43
48	31	36	39	22	34	42
47	30	36	39	21	33	42
46	30	35	38	21	32	41
45	29	34	37	20	32	40
44	29	33	36	20	31	39
43	28	33	36	19	30	38
42	28	32	35	19	30	37
41	27	31	34	18	29	36
40	26	31	33	18	28	36
39	26	30	33	17	28	35
38	25	29	32	17	27	34
37	25	28	31	16	26	33
36	24	28	30	16	25	32
35	23	27	30	15	25	31
34	23	26	29	15	24	31
33	22	25	28	15	23	30
32	22	25	27	14	23	29
31	21	24	27	14	22	28
30	21	23	26	13	21	27
29	20	23	25	13	21	26
28	19	22	24	12	20	25

TABLE 101. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
27	19	21	24	12	19	25
26	18	20	23	11	19	24
25	18	20	22	11	18	23
24	17	19	21	10	17	22
23	17	18	20	10	17	21
22	16	18	20	9	16	20
21	15	17	19	9	15	20
20	15	16	18	9	15	19
19	14	15	17	8	14	18
18	14	15	17	8	13	17
17	13	14	16	7	13	16
16	12	13	15	7	12	15
15	12	12	14	6	11	14
14	11	12	14	6	11	14
13	11	11	13	5	10	13
12	10	10	12	5	9	12
11	10	10	11	4	9	11
10	9	9	11	4	8	10
9	8	8	10	3	7	9
8	8	7	9	3	6	9
7	7	7	8	2	6	8
6	7	6	8	2	5	7
5	6	5	7	2	4	6
4	5	5	6	1	4	5
3	5	4	5	1	3	4
2	4	3	5	0	2	3
1	4	2	4	0	2	3
0	3	2	3	- 1	1	2

TABLE 102. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING (COMPREHENSION

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
45	35	42	55	25	39	49
44	35	41	54	24	38	48
43	34	40	53	24	37	46
42	33	39	52	23	36	45
41	32	38	50	23	35	44
40	31	37	49	22	34	43
39	31	36	48	21	33	42
38	30	35	46	21	32	41
37	29	34	45	20	32	40
36	28	33	44	19	31	39
35	28	32	42	19	30	37
34	27	31	41	18	29	36
33	26	30	40	18	28	35
32	25	29	38	17	27	34
31	25	28	37	16	26	33
30	24	27	36	16	25	32
29	23	26	34	15	24	31
28	22	25	33	15	23	30
27	22	25	32	14	23	29
26	21	24	30	13	22	27
25	20	23	29	13	21	26
24	19	22	28	12	20	25
23	18	21	26	12	19	24
22	18	20	25	11	18	23
21	17	19	24	10	17	22
20	16	18	23	10	16	21
19	15	17	21	9	15	20
18	15	16	20	8	15	19
17	14	15	19	8	14	17
16	13	14	17	7	13	16
15	12	13	16	7	12	15
14	12	12	15	6	11	14
13	11	11	13	5	10	13
12	10	10	12	5	9	12
11	9	9	11	4	8	11
10	9	8	9	4	7	10
9	8	7	8	3	7	9
8	7	6	7	2	6	7
7	6	6	5	2	5	6
6	5	5	4	1	4	5
5	5	4	3	0	3	4

TABLE 102. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING (COMPREHENSION

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
4	4	3	1	0	2	3
3	3	2	0	- 1	1	2
2	2	1	- 1	- 1	0	1
1	2	0	- 2	- 2	- 1	0
0	1	- 1	- 4	- 3	- 2	- 1

TABLE 103. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR PART 2 (COMPREHENSION)

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
30	42	50	66	53	46	58
29	40	48	64	52	45	56
28	39	46	62	50	43	54
27	35	45	60	48	42	52
26	37	43	58	47	40	51
25	35	42	56	45	39	49
24	34	40	54	44	37	47
23	33	39	51	42	36	45
22	32	37	49	40	34	43
21	30	36	47	39	33	42
20	29	34	45	37	31	40
19	28	32	43	35	30	38
18	27	31	41	34	29	36
17	25	29	38	32	27	34
16	24	28	36	31	26	32
15	23	26	34	29	24	31
14	22	25	32	27	23	29
13	20	23	30	26	21	27
12	19	22	28	24	20	25
11	18	20	26	22	18	23
10	17	19	23	21	17	22
9	15	17	21	19	15	20
8	14	15	19	17	14	18
7	13	14	17	16	13	16
6	12	12	15	14	11	14
5	10	11	13	13	10	12
4	9	9	11	11	8	11
3	8	8	8	9	7	9
2	7	6	6	8	5	7
1	5	5	4	6	4	5
0	4	3	2	4	2	3

TABLE 104. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

SRA (71 ED.) BLUE FORM E READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
48	43	52	69	56	31	60
47	43	51	68	54	31	59
46	42	49	66	53	30	58
45	41	48	65	52	29	57
44	40	47	63	51	29	55
43	39	46	62	50	28	54
42	38	45	61	49	27	53
41	37	44	59	48	27	52
40	37	43	58	47	26	50
39	36	42	56	46	25	49
38	35	41	55	44	25	48
37	34	40	53	43	24	47
36	33	39	52	42	23	45
35	32	38	50	41	23	44
34	31	37	49	40	22	43
33	31	36	47	39	21	42
32	30	35	46	38	20	40
31	29	34	44	37	20	39
30	28	33	43	35	19	38
29	27	31	41	34	18	37
28	26	30	40	33	18	35
27	25	29	38	32	17	34
26	25	28	37	31	16	33
25	24	27	35	30	16	32
24	23	26	34	29	15	30
23	22	25	33	28	14	29
22	21	24	31	27	14	28
21	20	23	30	25	13	27
20	19	22	28	24	12	25
19	19	21	27	23	12	24
18	18	20	25	22	11	23
17	17	19	24	21	10	22
16	16	18	22	20	10	21
15	15	17	21	19	9	19
14	14	16	19	18	8	18
13	13	14	18	16	7	17
12	13	13	16	15	7	16
11	12	12	15	14	6	14
10	11	11	13	13	5	13
9	10	10	12	12	5	12
8	9	9	10	11	4	11

TABLE 104. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

SRA (71 ED.) BLUE FORM E READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM C COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
7	8	8	9	10	3	9
6	7	7	7	9	3	8
5	7	6	6	7	2	7
4	6	5	5	6	1	6
3	5	4	3	5	1	4
2	4	3	2	4	0	3
1	3	2	0	3	- 1	2
0	2	1	- 1	2	- 1	1

TABLE 105. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR PARAGRAPH MEANING

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
60	43	51	69	55	31	48
59	42	51	68	54	31	47
58	42	50	67	54	30	46
57	41	49	65	53	30	45
56	40	48	64	52	29	45
55	40	47	63	51	29	44
54	39	46	62	50	28	43
53	38	45	61	49	27	42
52	38	45	60	48	27	41
51	37	44	58	47	26	41
50	36	43	57	46	26	40
49	36	42	56	45	25	39
48	35	41	55	45	25	38
47	34	40	54	44	24	37
46	34	39	52	43	24	37
45	33	39	51	42	23	36
44	32	38	50	41	22	35
43	31	37	49	40	22	34
42	31	36	48	39	21	33
41	30	35	47	38	21	33
40	29	34	45	37	20	32
39	29	33	44	36	20	31
38	28	33	43	36	19	30
37	27	32	42	35	19	29
36	27	31	41	34	18	29
35	26	30	39	33	18	28
34	25	29	38	32	17	27
33	25	28	37	31	16	26
32	24	28	36	30	16	25
31	23	27	35	29	15	25
30	23	26	34	28	15	24
29	22	25	32	28	14	23
28	21	24	31	27	14	22
27	21	23	30	26	13	21
26	20	22	29	25	13	21
25	19	22	28	24	12	20
24	18	21	26	23	11	19
23	18	20	25	22	11	18
22	17	19	24	21	10	17
21	16	18	23	20	10	17
20	16	17	22	19	9	16

TABLE 105. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR PARAGRAPH MEANING

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
19	15	16	21	19	9	15
18	14	16	19	18	8	14
17	14	15	18	17	8	13
16	13	14	17	16	7	13
15	12	13	16	15	7	12
14	12	12	15	14	6	11
13	11	11	13	13	5	10
12	10	10	12	12	5	9
11	10	10	11	11	4	8
10	9	9	10	10	4	8
9	8	8	9	10	3	7
8	7	7	8	9	3	6
7	7	6	6	8	2	5
6	6	5	5	7	2	4
5	5	4	4	6	1	4
4	5	4	3	5	0	3
3	4	3	2	4	0	2
2	3	2	0	3	- 1	1
1	3	1	- 1	2	- 1	1
0	2	0	- 2	1	- 2	0

TABLE 106. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
42	45	66	45	30	48	59
41	44	64	45	29	46	57
40	43	62	44	29	45	55
39	42	61	44	28	44	54
38	42	59	43	27	43	53
37	41	58	43	27	42	51
36	40	57	,2	26	41	50
35	40	55	42	25	40	49
34	39	54	41	25	38	47
33	38	52	40	24	37	46
32	37	51	40	23	36	44
31	36	49	39	22	35	43
30	35	47	38	21	33	41
29	35	46	38	20	32	40
28	34	44	37	19	31	38
27	33	42	36	18	29	37
26	31	41	35	18	28	36
25	30	39	34	17	26	34
24	29	36	32	16	25	32
23	27	34	31	15	23	31
22	26	32	29	14	22	29
21	24	30	28	13	21	27
20	23	28	26	12	20	26
19	21	26	24	11	19	24
18	20	24	23	11	18	23
17	18	22	21	10	17	21
16	17	21	20	10	16	20
15	16	20	18	9	15	19
14	15	19	17	8	14	18
13	13	18	15	8	13	16
12	12	16	14	7	12	15
11	11	15	12	6	11	14
10	10	14	11	6	10	13
9	9	13	10	5	9	11
8	8	12	9	4	8	10
7	7	10	7	3	7	9
6	6	9	6	3	6	7
5	5	7	5	2	5	5
4	4	6	4	2	4	4
3	3	4	3	1	3	3
2	2	3	2	1	2	2

TABLE 106. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
1	1	2	1	0	1	1
0	0	0	0	0	1	0

TABLE 107. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
45	42	66	45	30	48	59
44	41	64	45	29	46	57
43	40	62	44	29	45	55
42	39	60	43	28	43	53
41	37	58	43	27	42	51
40	36	56	42	26	40	49
39	34	54	41	25	39	48
38	33	52	40	24	37	46
37	32	50	40	23	36	44
36	31	48	39	22	34	42
35	30	47	38	21	33	41
34	29	45	37	20	31	39
33	28	43	36	19	30	38
32	27	42	35	18	29	36
31	26	40	34	17	27	35
30	25	38	33	16	26	34
29	24	37	32	16	25	33
28	24	35	31	15	24	31
27	23	34	31	14	23	30
26	22	32	29	14	22	29
25	22	31	28	13	21	28
24	21	30	27	13	21	27
23	20	28	26	12	20	26
22	20	27	25	12	19	25
21	19	26	24	11	19	24
20	18	24	23	11	18	23
19	18	23	22	11	17	22
18	17	22	21	10	17	21
17	16	21	20	10	16	20
16	15	20	19	9	15	19
15	15	19	17	9	14	18
14	14	18	16	8	14	17
13	13	17	15	7	13	16
12	12	16	13	7	12	15
11	11	15	12	6	11	14
10	10	14	11	5	10	12
9	9	13	10	5	9	11
8	8	11	8	4	8	10
7	7	10	7	3	7	8
6	6	8	6	3	6	7
5	5	7	5	2	5	5

TABLE 107. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
4	4	6	4	2	4	4
3	3	4	3	1	3	3
2	2	3	2	1	2	2
1	1	2	1	0	1	1
0	0	0	0	0	0	0

TABLE 108. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE 1 FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
68	42	45	45	30	48	60
67	42	45	45	30	48	59
66	42	45	45	30	48	59
65	42	45	45	30	47	58
64	41	44	45	29	46	57
63	41	44	45	29	46	56
62	40	43	44	29	45	55
61	40	43	44	28	44	54
60	39	42	44	28	43	53
59	38	42	43	27	43	52
58	37	41	43	27	42	51
57	36	41	42	26	41	51
56	36	40	42	26	40	50
55	35	40	42	25	39	49
54	34	39	41	25	39	48
53	34	39	41	24	38	47
52	33	38	40	24	37	46
51	32	38	40	23	36	45
50	32	37	40	23	35	44
49	31	36	39	22	35	43
48	30	36	39	22	34	42
47	30	35	38	21	33	41
46	29	35	38	20	32	40
45	29	34	37	20	31	39
44	28	34	37	19	31	38
43	27	33	36	19	30	38
42	27	32	36	18	29	37
41	26	32	35	18	28	36
40	26	31	34	17	27	35
39	25	30	34	17	27	34
38	25	30	33	16	26	34
37	24	29	33	16	25	33
36	24	29	32	15	25	32
35	24	28	31	15	24	31
34	23	27	31	15	23	31
33	23	27	30	14	23	30
32	22	26	29	14	22	29
31	22	25	29	13	21	28
30	21	24	28	13	21	27
29	21	24	27	13	20	27
28	20	23	26	12	20	26

TABLE 108. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
27	20	22	25	12	19	25
26	19	21	25	12	19	24
25	19	21	24	11	18	24
24	18	20	23	11	18	23
23	18	19	22	11	17	22
22	17	18	21	10	17	21
21	16	17	20	10	16	20
20	15	16	19	9	15	19
19	14	15	17	9	14	18
18	14	14	16	8	14	17
17	13	13	15	7	13	16
16	12	12	13	7	12	15
15	11	11	12	6	11	14
14	10	10	11	6	10	13
13	9	9	10	5	9	11
12	8	8	9	4	8	10
11	8	8	8	4	8	9
10	7	7	7	3	7	8
9	6	6	6	3	6	7
8	6	6	6	3	5	6
7	5	5	5	2	5	5
6	4	4	4	2	4	5
5	4	4	4	2	4	4
4	3	3	3	1	3	3
3	2	2	2	1	2	2
2	1	1	1	0	2	1
1	1	1	1	0	1	1
0	0	0	0	0	0	0

TABLE 109. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING (COMPREHENSION

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
45	42	45	65	30	47	58
44	40	43	61	28	44	55
43	38	42	59	27	43	52
42	36	40	56	26	41	50
41	34	39	54	25	38	47
40	32	38	51	23	36	45
39	31	36	49	22	34	43
38	30	35	47	21	33	41
37	28	34	45	20	31	39
36	27	33	43	19	30	37
35	26	32	41	18	28	36
34	25	31	40	17	27	35
33	25	30	38	16	26	33
32	24	29	36	15	25	32
31	23	28	35	15	24	31
30	23	27	33	14	23	30
29	22	26	32	14	22	29
28	21	25	30	13	21	28
27	21	24	29	13	20	27
26	20	23	28	12	20	26
25	20	22	27	12	19	25
24	19	21	26	11	19	24
23	18	20	24	11	18	23
22	18	19	23	11	17	22
21	17	18	22	10	17	21
20	16	17	21	10	16	20
19	16	16	20	9	15	20
18	15	16	20	9	15	19
17	14	15	19	8	14	18
16	14	14	18	8	14	17
15	13	13	17	8	13	16
14	12	13	17	7	12	15
13	12	12	16	7	12	15
12	11	11	15	6	11	14
11	10	10	14	6	10	13
10	9	10	13	5	9	12
9	8	9	12	4	9	11
8	8	8	11	4	8	9
7	7	7	10	3	7	8
6	6	6	9	3	6	7
5	5	5	7	2	5	5

TABLE 109. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR READING (COMPREHENSION

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
4	4	4	6	2	4	4
3	3	3	4	1	3	3
2	2	2	3	1	2	2
1	1	1	2	0	1	1
0	0	0	0	0	1	0

TABLE 110. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR PART 2 (COMPREHENSION)

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM C COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
30	42	45	66	45	48	58
29	41	44	63	45	46	56
28	39	42	61	44	44	54
27	38	41	59	43	42	52
26	36	40	56	42	41	50
25	35	39	55	41	39	48
24	33	38	53	41	37	46
23	32	37	51	40	36	44
22	31	36	49	39	35	43
21	30	35	47	38	33	41
20	29	34	46	38	32	40
19	28	33	44	37	30	38
18	27	32	42	35	29	36
17	26	31	40	34	27	35
16	25	30	37	33	26	33
15	24	28	35	31	24	31
14	22	26	33	30	23	30
13	21	25	30	28	21	28
12	20	23	28	26	20	26
11	19	20	25	23	18	23
10	17	18	22	21	17	21
9	15	16	20	18	15	19
8	14	14	18	16	14	17
7	12	13	17	14	12	15
6	11	11	15	12	11	14
5	9	10	13	10	10	12
4	8	8	12	9	8	10
3	6	7	10	7	6	8
2	5	5	6	5	4	5
1	3	3	4	3	3	3
0	1	1	1	1	1	1

TABLE 111. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

SRA (71 ED.) BLUE FORM E READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
48	42	45	66	45	30	59
47	42	45	65	45	30	58
46	41	44	64	45	29	57
45	40	43	62	44	29	56
44	39	43	61	44	28	54
43	38	42	60	43	28	53
42	37	41	58	43	27	52
41	36	41	57	42	26	50
40	35	40	56	42	26	49
39	35	39	55	41	25	48
38	34	39	53	41	24	47
37	33	38	52	40	24	46
36	32	37	51	40	23	45
35	31	37	50	39	22	43
34	31	36	48	39	22	42
33	30	35	47	38	21	41
32	29	35	46	38	20	40
31	28	34	45	37	20	39
30	28	33	43	36	19	38
29	27	32	42	36	18	37
28	26	32	41	35	18	36
27	26	31	40	34	17	35
26	25	30	38	33	16	34
25	24	29	37	32	16	33
24	24	28	35	31	15	31
23	23	27	34	31	14	30
22	22	26	32	29	14	29
21	21	25	30	28	13	28
20	20	23	28	26	12	26
19	19	22	26	25	12	25
18	18	20	24	23	11	23
17	18	19	23	22	10	22
16	16	17	21	20	10	20
15	15	16	20	18	9	19
14	14	15	19	17	8	18
13	13	13	17	15	8	16
12	12	12	16	14	7	15
11	11	11	15	12	6	14
10	10	10	14	11	5	13
9	9	9	13	10	5	11
8	8	8	12	9	4	10

TABLE 111. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR READING COMPREHENSION

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

SRA (71 ED.) BLUE FORM E READING (COMPR.)	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM C COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
7	7	7	10	7	3	9
6	6	6	9	6	3	7
5	5	5	8	5	2	6
4	4	4	6	4	2	4
3	3	3	4	3	1	3
2	2	2	3	2	1	2
1	1	1	1	1	0	1
0	0	0	0	0	0	0

TABLE 112. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR PARAGRAPH MEANING

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	IITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
60	42	45	67	45	30	48
59	42	45	67	45	30	48
58	42	45	66	45	30	47
57	41	44	64	45	29	46
56	40	44	63	44	29	45
55	40	43	62	44	29	45
54	39	43	61	44	28	44
53	38	42	60	43	28	43
52	38	41	59	43	27	42
51	37	41	58	43	27	42
50	36	40	57	42	26	41
49	35	40	56	42	26	40
48	35	39	55	41	25	39
47	34	39	54	41	25	36
46	33	38	53	41	24	37
45	33	38	51	40	23	36
44	32	37	50	40	23	36
43	31	37	49	39	22	35
42	31	36	48	39	22	34
41	30	35	47	38	21	33
40	29	35	46	38	20	32
39	29	34	45	37	20	31
38	28	33	44	37	19	30
37	27	33	43	36	18	29
36	26	32	41	35	18	28
35	26	31	40	34	17	27
34	25	30	39	34	17	26
33	24	29	37	33	16	25
32	24	29	36	32	15	25
31	23	28	35	31	15	24
30	23	27	33	30	14	23
29	22	26	32	29	14	22
28	22	25	31	28	13	21
27	21	24	30	27	13	21
26	20	23	28	26	12	20
25	20	22	27	25	12	19
24	19	21	26	24	11	19
23	18	20	24	23	11	18
22	18	19	23	22	10	17
21	17	18	22	21	10	17
20	16	17	21	20	10	16

TABLE 112. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR PARAGRAPH MEANING

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION	CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION	ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION	MAT (70 ED.) ELEMENTARY FORM F READING (COMPR.)	STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)	SRA (71 ED.) BLUE FORM E READING (COMPR.)
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
19	15	16	20	18	9	15
18	14	15	19	17	9	14
17	14	14	18	16	8	14
16	13	13	17	15	7	13
15	12	12	16	14	7	12
14	11	11	15	12	6	11
13	10	11	14	11	6	10
12	10	10	14	10	5	10
11	9	9	13	10	5	9
10	8	8	12	9	4	8
9	7	8	11	8	4	7
8	7	7	10	7	3	7
7	6	6	9	6	3	6
6	6	6	8	6	3	5
5	5	5	7	5	2	5
4	4	4	5	4	2	4
3	3	3	4	3	1	3
2	2	2	3	2	1	2
1	1	1	2	1	0	1
0	0	0	0	0	0	1

LIST OF EQUATING TABLES AT GRADE 4

TOTAL READING

Methods	Tests	Table Numbers
Procedure 1: Linear Method	CAT	113
	CTBS	114
	ITBS	115
	MAT	116
	STEP II	117
	SRA	118
	SAT	119
Procedure 1: Equipercentile Method	CAT	120
	CTBS	121
	ITBS	122
	MAT	123
	STEP II	124
	SRA	125
	SAT	126
Procedure 2: Linear Method	CAT	127
	CTBS	128
	ITBS	129
	MAT	130
	STEP II	131
	SRA	132
	SAT	133
Procedure 2: Equipercentile Method	CAT	134
	CTBS	135
	ITBS	136
	MAT	137
	STEP II	138
	SRA	139
	SAT	140
Procedure 3: Linear Method	CAT	141
	CTBS	142
	ITBS	143
	MAT	144
	STEP II	145
	SRA	146
	SAT	147
Procedure 3: Equipercentile Method	CAT	148
	CTBS	149
	ITBS	150
	MAT	151
	STEP II	152
	SRA	153
	SAT	154
Average of Procedures 1 and 2 Linear Method	CAT	155
	CTBS	156
	ITBS	157
	MAT	158
	STEP II	159
	SRA	160
	SAT	161
Average of Procedures 1 and 2 Equipercentile Method	CAT	162
	CTBS	163
	ITBS	164
	MAT	165
	STEP II	166
	SRA	167
	SAT	168

TABLE 113. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, LINEAR METHOD

CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
82	93	107	116	61	92	95
81	91	105	115	60	91	94
80	90	104	114	59	89	93
79	89	103	112	58	88	91
78	88	101	111	58	87	90
77	87	100	109	57	86	89
76	86	98	108	56	85	88
75	85	97	107	55	84	87
74	83	96	105	55	82	85
73	82	94	104	54	81	84
72	81	93	103	53	80	83
71	80	92	101	53	79	82
70	79	90	100	52	78	81
69	78	89	98	51	76	79
68	77	87	97	50	75	78
67	76	86	96	50	74	77
66	74	85	94	49	73	76
65	73	83	93	48	72	75
64	72	82	92	47	70	73
63	71	80	90	47	69	72
62	70	79	89	46	68	71
61	69	78	88	45	67	70
60	68	76	86	44	66	69
59	66	75	85	44	65	67
58	65	74	83	43	63	66
57	64	72	82	42	62	65
56	63	71	[illegible]	41	61	64
55	62	69	79	41	60	63
54	61	68	78	40	59	61
53	60	67	77	39	57	60
52	58	65	75	38	56	59
51	57	64	74	38	55	58
50	56	62	72	37	54	57
49	55	61	71	36	53	55
48	54	60	70	35	52	54
47	53	58	68	35	50	53
46	52	57	67	34	49	52
45	51	56	66	33	48	50
44	49	54	64	32	47	49
43	48	53	63	32	46	48
42	47	51	62	31	44	47

TABLE 113. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, LINEAR METHOD

CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
41	46	50	60	30	43	46
40	45	49	59	29	42	44
39	44	47	57	29	41	43
38	43	46	56	28	40	42
37	41	45	55	27	38	41
36	40	43	53	26	37	40
35	39	42	52	25	36	38
34	38	40	51	25	35	37
33	37	39	49	24	34	36
32	36	38	48	24	33	35
31	35	36	46	23	31	34
30	34	35	45	22	30	32
29	32	33	44	21	29	31
28	31	32	42	21	28	30
27	30	31	41	20	27	29
26	29	29	40	19	25	28
25	28	28	38	18	24	26
24	27	27	37	18	23	25
23	26	25	36	17	22	24
22	24	24	34	16	21	23
21	23	22	33	15	19	22
20	22	21	31	15	18	20
19	21	20	30	14	17	19
18	20	18	29	13	16	18
17	19	17	27	12	15	17
16	18	15	26	12	14	16
15	17	14	25	11	12	14
14	15	13	23	10	11	13
13	14	11	22	9	10	12
12	13	10	21	9	9	11
11	12	9	19	8	8	10
10	11	7	18	7	6	8
9	10	6	16	6	5	7
8	9	4	15	6	4	6
7	7	3	14	5	3	5
6	6	2	12	4	2	4
5	5	0	11	3	1	2
4	4	- 1	10	3	- 1	1
3	3	- 2	8	2	- 2	0
2	2	- 4	7	1	- 3	- 1
1	1	- 5	5	0	- 4	- 2

TABLE 113. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, LINEAR METHOD

CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
0	- 1	- 7	4	0	- 5	- 4

TABLE 114. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, LINEAR METHOD

CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
85	75	98	107	56	84	87
84	75	96	106	55	83	86
83	74	95	105	54	82	85
82	73	94	104	54	81	84
81	72	93	102	53	80	83
80	71	92	101	53	79	82
79	70	90	100	52	78	81
78	69	89	99	51	77	80
77	68	88	98	51	76	79
76	68	87	96	50	75	77
75	67	85	95	49	74	76
74	66	84	94	49	73	75
73	65	83	93	48	71	74
72	64	82	92	47	70	73
71	63	81	90	47	69	72
70	62	79	89	46	68	71
69	61	78	88	45	67	70
68	60	77	87	45	66	69
67	60	76	86	44	65	68
66	59	74	84	43	64	67
65	58	73	83	43	63	66
64	57	72	82	42	62	65
63	56	71	81	41	61	64
62	55	70	80	41	60	63
61	54	68	78	40	59	62
60	53	67	77	39	58	61
59	53	66	76	39	57	59
58	52	65	75	38	56	58
57	51	63	73	37	55	57
56	50	62	72	37	54	56
55	49	61	71	36	53	55
54	48	60	70	35	52	54
53	47	59	69	35	51	53
52	46	57	67	34	50	52
51	45	56	66	34	48	51
50	45	55	65	33	47	50
49	44	54	64	32	46	49
48	43	53	63	32	45	48
47	42	51	61	31	44	47
46	41	50	60	30	43	46
45	40	49	59	30	42	45

TABLE 114. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, LINEAR METHOD

CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
44	39	48	58	29	41	44
43	38	46	57	28	40	43
42	38	45	55	28	39	41
41	37	44	54	27	38	40
40	36	43	53	26	37	39
39	35	42	52	26	36	38
38	34	40	51	25	35	37
37	33	39	49	24	34	36
36	32	38	48	24	33	35
35	31	37	47	23	32	34
34	31	35	46	22	31	33
33	30	34	45	22	30	32
32	29	33	43	21	29	31
31	28	32	42	20	28	30
30	27	31	41	20	27	29
29	26	29	40	19	25	28
28	25	28	39	18	24	27
27	24	27	37	18	23	26
26	23	26	36	17	22	25
25	23	25	35	16	21	23
24	22	23	34	16	20	22
23	21	22	32	15	19	21
22	20	21	31	15	18	20
21	19	20	30	14	17	19
20	18	18	29	13	16	18
19	17	17	28	13	15	17
18	16	16	26	12	14	16
17	16	15	25	11	13	15
16	15	14	24	11	12	14
15	14	12	23	10	11	13
14	13	11	22	9	10	12
13	12	10	20	9	9	11
12	11	9	19	8	8	10
11	10	7	18	7	7	9
10	9	6	17	7	6	8
9	8	5	16	6	5	7
8	8	4	14	5	4	5
7	7	3	13	5	2	4
6	6	1	12	4	1	3
5	5	0	11	3	0	2
4	4	- 1	10	3	- 1	1

TABLE 114. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, LINEAR METHOD

CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
3	3	- 2	8	2	- 2	0
2	2	- 4	7	1	- 3	- 1
1	1	- 5	6	1	- 4	- 2
0	1	- 6	5	0	- 5	- 3

TABLE 115. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, LINEAR METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM C TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
106	82	92	116	60	91	94
105	81	91	115	60	90	93
104	80	90	114	59	90	93
103	79	90	113	59	89	92
102	79	89	112	58	88	91
101	78	88	111	58	87	90
100	77	87	110	57	86	89
99	77	86	109	57	85	88
98	76	85	108	56	84	87
97	75	85	107	55	84	87
96	74	84	106	55	83	86
95	74	83	105	54	82	85
94	73	82	104	54	81	84
93	72	81	103	53	80	83
92	71	80	102	53	79	82
91	71	80	101	52	78	81
90	70	79	100	52	78	80
89	69	78	99	51	77	80
88	69	77	98	51	76	79
87	68	76	97	50	75	78
86	67	76	96	50	74	77
85	66	75	95	49	73	76
84	66	74	94	48	72	75
83	65	73	93	48	72	74
82	64	72	92	47	71	74
81	63	71	91	47	70	73
80	63	71	90	46	69	72
79	62	70	89	46	68	71
78	61	69	88	45	67	70
77	61	68	87	45	66	69
76	60	67	86	44	66	68
75	59	67	85	44	65	67
74	58	66	84	43	64	67
73	58	65	83	43	63	66
72	57	64	82	42	62	65
71	56	63	81	42	61	64
70	56	62	80	41	60	63
69	55	62	79	40	60	62
68	54	61	78	40	59	61
67	53	60	77	39	58	60
66	53	59	76	39	57	60

TABLE 115. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, LINEAR METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
65	52	58	75	38	56	59
64	51	58	74	38	55	58
63	50	57	73	37	54	57
62	50	56	72	37	54	56
61	49	55	71	36	53	55
60	48	54	70	36	52	54
59	48	53	69	35	51	54
58	47	53	68	35	50	53
57	46	52	67	34	49	52
56	45	51	66	33	48	51
55	45	50	65	33	47	50
54	44	49	64	32	47	49
53	43	48	63	32	46	48
52	42	48	62	31	45	47
51	42	47	61	31	44	47
50	41	46	60	30	43	46
49	40	45	59	30	42	45
48	40	44	58	29	41	44
47	39	44	57	29	41	43
46	38	43	56	28	40	42
45	37	42	55	28	39	41
44	37	41	54	27	38	40
43	36	40	53	26	37	40
42	35	39	52	26	36	39
41	35	39	51	25	35	38
40	34	38	50	25	35	37
39	33	37	49	24	34	36
38	32	36	48	24	33	35
37	32	35	47	23	32	34
36	31	35	46	23	31	34
35	30	34	45	22	30	33
34	29	33	44	22	29	32
33	29	32	43	21	29	31
32	28	31	42	21	28	30
31	27	30	41	20	27	29
30	27	30	40	19	26	28
29	26	29	39	19	25	27
28	25	28	38	18	24	27
27	24	27	37	18	23	26
26	24	26	36	17	23	25
25	23	25	35	17	22	24

TABLE 115. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, LINEAR METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
24	22	25	34	16	21	23
23	22	24	33	16	20	22
22	21	23	32	15	19	21
21	20	22	31	15	18	20
20	19	21	30	14	17	20
19	19	21	29	14	17	19
18	18	20	29	13	16	18
17	17	19	28	12	15	17
16	16	18	27	12	14	16
15	16	17	26	11	13	15
14	15	16	25	11	12	14
13	14	16	24	10	11	14
12	14	15	23	10	11	13
11	13	14	22	9	10	12
10	12	13	21	9	9	11
9	11	12	20	8	8	10
8	11	12	19	8	7	9
7	10	11	18	7	6	8
6	9	10	17	7	5	7
5	8	9	16	6	5	7
4	8	8	15	5	4	6
3	7	7	14	5	3	5
2	6	7	13	4	2	4
1	6	6	12	4	1	3
0	5	5	11	3	0	2

TABLE 116. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, LINEAR METHOD

MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
95	67	75	85	49	73	76
94	66	74	84	49	73	75
93	65	73	83	48	72	75
92	64	72	82	48	71	74
91	64	72	81	47	70	73
90	63	71	80	46	69	72
89	62	70	79	46	68	71
88	61	69	78	45	67	70
87	61	68	77	45	67	69
86	60	67	76	44	66	68
85	59	67	75	44	65	68
84	59	66	74	43	64	67
83	58	65	73	43	63	66
82	57	64	72	42	62	65
81	56	63	71	42	61	64
80	56	63	70	41	60	63
79	55	62	69	40	60	62
78	54	61	68	40	59	61
77	53	60	67	39	58	61
76	53	59	66	39	57	60
75	52	58	65	38	56	59
74	51	58	64	38	55	58
73	50	57	63	37	54	57
72	50	56	62	37	54	56
71	49	55	61	36	53	55
70	48	54	60	36	52	54
69	48	53	59	35	51	53
68	47	53	58	34	50	53
67	46	52	57	34	49	52
66	45	51	56	33	48	51
65	45	50	55	33	47	50
64	44	49	54	32	47	49
63	44	48	53	32	46	48
62	42	48	52	31	45	47
61	42	47	51	31	44	46
60	41	46	50	30	43	46
59	40	45	49	30	42	45
58	39	44	48	29	41	44
57	39	43	47	29	40	43
56	38	43	46	28	40	42
55	37	42	45	27	39	41

TABLE 116. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, LINEAR METHOD

MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
54	37	41	44	27	38	40
53	36	40	43	26	37	39
52	35	39	42	26	36	39
51	34	38	41	25	35	38
50	34	38	40	25	34	37
49	33	37	39	24	3[illegible]	36
48	32	36	38	24	33	35
47	31	35	37	23	32	34
46	31	34	36	23	31	33
45	30	33	35	22	30	32
44	29	33	34	21	29	32
43	29	32	33	21	28	31
42	28	31	32	20	27	30
41	27	30	31	20	27	29
40	26	29	30	19	26	28
39	26	28	29	19	25	27
38	25	28	28	18	24	26
37	24	27	27	18	23	25
36	23	26	26	17	22	25
35	23	25	25	17	21	24
34	22	24	24	16	21	23
33	21	24	23	15	20	22
32	20	23	22	15	19	21
31	20	22	21	14	18	20
30	19	21	20	14	17	19
29	18	20	19	13	16	18
28	18	19	18	13	15	17
27	17	19	17	12	14	17
26	16	18	16	12	14	16
25	15	17	15	11	13	15
24	15	16	14	11	12	14
23	14	15	13	10	11	13
22	13	14	12	9	10	12
21	12	14	11	9	9	11
20	12	13	10	8	8	10
19	11	12	8	8	8	10
18	10	11	7	7	7	9
17	10	10	6	7	6	8
16	9	9	5	6	5	7
15	8	9	4	6	4	6
14	7	8	3	5	3	5

TABLE 116. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, LINEAR METHOD

MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
13	7	7	2	5	2	4
12	6	6	1	4	1	3
11	5	5	0	4	1	3
10	4	4	- 1	3	0	2
9	4	4	- 2	2	- 1	1
8	3	3	- 3	2	- 2	0
7	2	2	- 4	1	- 3	- 1
6	1	1	- 5	1	- 4	- 2
5	1	0	- 6	0	- 5	- 3
4	0	- 1	- 7	0	- 5	- 4
3	- 1	- 1	- 8	- 1	- 6	- 4
2	- 1	- 2	- 9	- 1	- 7	- 5
1	- 2	- 3	- 10	- 2	- 8	- 6
0	- 3	- 4	- 11	- 2	- 9	- 7

TABLE 117. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, LINEAR METHOD

STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
60	81	92	106	115	91	94
59	80	90	104	113	89	92
58	79	89	102	111	88	91
57	77	87	100	110	86	89
56	76	85	98	108	84	87
55	74	84	96	106	83	86
54	73	82	94	104	81	84
53	72	81	93	102	80	83
52	70	79	91	100	78	81
51	69	78	89	99	76	79
50	68	76	87	97	75	78
49	66	75	85	95	73	76
48	65	73	83	93	72	75
47	64	72	81	91	70	73
46	62	70	80	89	68	71
45	61	69	78	87	67	70
44	60	67	76	86	65	68
43	58	66	74	84	64	66
42	57	64	72	82	62	65
41	56	63	70	80	61	63
40	54	61	68	78	59	62
39	53	60	66	76	57	60
38	52	58	65	75	56	58
37	50	56	63	73	54	57
36	49	55	61	71	53	55
35	48	53	59	69	51	54
34	46	52	57	67	49	52
33	45	50	55	65	48	50
32	44	49	53	64	46	49
31	42	47	52	62	45	47
30	41	46	50	60	43	45
29	39	44	48	58	41	44
28	38	43	46	56	40	42
27	37	41	44	54	38	41
26	35	40	42	53	37	39
25	34	38	40	51	35	37
24	33	37	39	49	33	36
23	31	35	37	47	32	34
22	30	34	35	45	30	33
21	29	32	33	43	29	31
20	27	31	31	41	27	29

TABLE 117. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, LINEAR METHOD

STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
19	26	29	29	40	25	28
18	25	27	27	38	24	26
17	23	26	26	36	22	24
16	22	24	24	34	21	23
15	21	23	22	32	19	21
14	19	21	20	30	17	20
13	18	20	18	29	16	18
12	17	18	16	27	14	16
11	15	17	14	25	13	15
10	14	15	13	23	11	13
9	13	14	11	21	9	12
8	11	12	9	19	8	10
7	10	11	7	18	6	8
6	9	9	5	16	5	7
5	7	8	[illegible]	14	3	5
4	6	6	1	12	1	3
3	5	5	0	10	0	2
2	3	3	- 2	8	- 2	0
1	2	2	- 4	7	- 3	- 1
0	0	0	- 6	5	- 5	- 3

TABLE 118. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, LINEAR METHOD

SRA (71 ED.) BLUE FORM E TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
90	81	91	105	114	60	93
89	80	90	103	113	59	92
88	79	89	102	112	58	91
87	78	88	101	111	58	90
86	77	87	100	110	57	89
85	76	86	99	108	56	88
84	75	85	98	107	56	67
83	75	84	96	106	55	86
82	74	83	95	105	55	85
81	73	82	94	104	54	84
80	72	81	93	103	53	83
79	71	80	92	102	53	82
78	70	79	91	100	52	81
77	70	78	89	99	51	80
76	69	77	88	98	51	79
75	68	76	87	97	50	78
74	67	76	86	96	50	77
73	66	75	85	95	49	76
72	65	74	84	93	48	75
71	65	73	82	92	48	74
70	64	72	81	91	47	73
69	63	71	80	90	46	72
68	62	70	79	89	46	71
67	61	69	78	88	45	70
66	60	68	77	87	45	69
65	59	67	76	85	44	68
64	59	66	74	84	43	67
63	58	65	73	83	43	66
62	57	64	72	82	42	65
61	56	63	71	81	41	64
60	55	62	70	80	41	63
59	54	61	69	78	40	62
58	54	60	67	77	40	61
57	53	59	66	76	39	60
56	52	58	65	75	38	59
55	51	57	64	74	38	58
54	50	56	63	73	37	57
53	49	55	62	72	36	56
52	49	54	60	70	36	55
51	48	54	59	69	35	54
50	47	53	58	68	34	53

TABLE 118. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, LINEAR METHOD

SRA (71 ED.) BLUE FORM E TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
49	46	52	57	67	34	52
48	45	51	56	66	33	51
47	44	50	55	65	33	50
46	43	49	53	63	32	49
45	43	48	52	62	31	48
44	42	47	51	61	31	47
43	41	46	50	60	30	45
42	40	45	49	59	29	45
41	39	44	48	58	29	44
40	38	43	46	57	28	42
39	38	42	45	55	28	41
38	37	41	44	54	27	40
37	36	40	43	53	26	39
36	35	39	42	52	26	38
35	34	38	41	51	25	37
34	33	37	39	50	24	36
33	32	36	38	48	24	35
32	32	35	37	47	23	34
31	31	34	36	46	23	33
30	30	33	35	45	22	32
29	29	32	34	44	21	31
28	28	32	32	43	21	30
27	27	31	31	42	20	29
26	27	30	30	40	19	28
25	26	29	29	39	19	27
24	25	28	28	38	18	26
23	24	27	27	37	18	25
22	23	26	25	36	17	24
21	22	25	24	35	16	23
20	22	24	23	33	16	22
19	21	23	22	32	15	21
18	20	22	21	31	14	20
17	19	21	20	30	14	19
16	18	20	18	29	13	18
15	17	19	17	28	13	17
14	16	18	16	27	12	16
13	16	17	15	25	11	15
12	15	16	14	24	11	14
11	14	15	13	23	10	13
10	13	14	11	22	9	12
9	12	13	10	21	9	11

TABLE 118. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1. LINEAR METHOD

SRA (71 ED.) BLUE FORM E TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
8	11	12	9	20	8	10
7	11	11	8	18	8	9
6	10	10	7	17	7	8
5	9	10	6	16	6	7
4	8	9	4	15	6	6
3	7	8	3	14	5	5
2	6	7	2	13	4	4
1	6	6	1	12	4	3
0	5	5	0	10	3	2

TABLE 119. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, LINEAR METHOD

SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
98	85	95	110	120	63	95
97	84	95	109	119	62	94
96	83	94	108	118	61	93
95	82	93	107	116	61	92
94	81	92	106	115	60	91
93	80	91	105	114	60	90
92	80	90	103	113	59	89
91	79	89	102	112	58	88
90	78	88	101	111	58	87
89	77	87	100	110	57	86
88	76	86	99	108	56	85
87	75	85	98	107	56	84
86	75	84	96	106	55	83
85	74	83	95	105	55	82
84	73	82	94	104	54	81
83	72	81	93	103	53	80
82	71	80	92	102	53	79
81	70	79	91	100	52	78
80	70	78	90	99	51	77
79	69	78	88	98	51	76
78	68	77	87	97	50	75
77	67	76	86	96	50	74
76	66	75	85	95	49	73
75	65	74	84	94	48	72
74	65	73	83	92	48	71
73	64	72	82	91	47	70
72	63	71	80	90	47	69
71	62	70	79	89	46	68
70	61	69	78	88	45	67
69	60	68	77	87	45	66
68	60	67	76	86	44	65
67	59	66	75	84	43	64
66	58	65	73	83	43	63
65	57	64	72	82	42	62
64	56	63	71	81	42	61
63	56	62	70	80	41	60
62	55	61	69	79	40	59
61	54	61	68	78	40	58
60	53	60	67	77	39	57
59	52	59	65	75	38	56
58	51	58	64	74	38	55

TABLE 119. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, LINEAR METHOD

SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
57	51	57	63	73	37	54
56	50	56	62	72	37	53
55	49	55	61	71	36	52
54	48	54	60	70	35	51
53	47	53	59	69	35	50
52	46	52	57	67	34	49
51	46	51	55	66	34	48
50	45	50	55	65	33	48
49	44	49	54	64	32	47
48	43	48	53	63	32	46
47	42	47	52	62	31	45
46	41	46	50	61	30	44
45	41	45	49	59	30	43
44	40	44	48	58	29	42
43	39	44	47	57	29	41
42	38	43	46	56	28	40
41	37	42	45	55	27	39
40	36	41	44	54	27	38
39	36	40	42	53	26	37
38	35	39	41	51	25	36
37	34	38	40	50	25	35
36	33	37	39	49	24	34
35	32	36	38	48	24	33
34	31	35	37	47	23	32
33	31	34	36	46	22	31
32	30	33	34	45	22	30
31	29	32	33	44	21	29
30	28	31	32	42	21	28
29	27	30	31	41	20	27
28	26	29	30	40	19	26
27	26	28	29	39	19	25
26	25	27	27	38	18	24
25	24	27	26	37	17	23
24	23	26	25	36	17	22
23	22	25	24	34	16	21
22	21	24	23	33	16	20
21	21	23	22	32	15	19
20	20	22	21	31	14	18
19	19	21	19	30	14	17
18	18	20	18	29	13	16
17	17	19	17	28	12	15

TABLE 119. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, LINEAR METHOD

SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
16	16	18	16	26	12	14
15	16	17	15	25	11	13
14	15	16	14	24	11	12
13	14	15	12	23	10	11
12	13	14	11	22	9	10
11	12	13	10	21	9	9
10	11	12	9	20	8	8
9	11	11	8	18	8	7
8	10	10	7	17	7	6
7	9	10	6	16	6	5
6	8	9	4	15	6	4
5	7	8	3	14	5	3
4	6	7	2	13	4	2
3	6	6	1	12	4	1
2	5	5	0	10	3	0
1	4	4	- 1	9	3	- 1
0	3	3	- 2	8	2	- 2

TABLE 120. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, EQUIPERCENTILE METHOD

CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
82	85	106	95	60	90	98
81	84	105	95	60	90	97
80	83	103	95	59	88	95
79	82	101	94	58	87	93
78	81	99	93	57	85	91
77	80	97	93	56	84	90
76	79	96	92	55	83	89
75	79	95	92	55	83	88
74	78	94	91	54	82	86
73	77	93	91	54	81	85
72	77	92	91	53	80	83
71	76	91	90	52	79	82
70	75	90	90	52	78	81
69	74	89	89	51	77	80
68	74	88	89	50	76	79
67	73	86	88	50	75	77
66	72	85	88	49	74	76
65	72	84	87	48	73	75
64	71	83	87	48	72	74
63	70	82	86	47	71	73
62	69	80	86	46	70	72
61	68	79	85	45	69	70
60	68	78	84	45	68	69
59	67	76	84	44	66	68
58	66	75	83	43	65	67
57	65	74	82	42	64	65
56	64	72	82	42	62	64
55	63	71	81	41	61	62
54	62	69	80	40	60	61
53	61	68	79	39	58	60
52	60	66	78	38	57	59
51	59	65	77	37	55	57
50	58	63	76	37	54	56
49	57	62	75	36	53	55
48	56	60	74	35	51	54
47	54	59	73	34	50	53
46	53	57	72	34	49	52
45	52	55	70	33	47	50
44	51	54	69	32	46	49
43	50	52	68	31	44	48
42	48	50	67	31	43	46

TABLE 120. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, EQUIPERCENTILE METHOD

CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
41	47	49	65	30	42	45
40	46	47	64	30	41	44
39	45	45	62	29	39	43
38	44	44	61	28	38	42
37	42	42	59	27	37	40
36	41	40	57	27	36	39
35	39	39	56	26	34	38
34	38	38	54	25	33	36
33	37	37	52	24	32	35
32	35	35	50	24	31	34
31	34	34	48	23	30	33
30	33	33	46	22	29	32
29	31	32	43	22	28	30
28	30	31	41	21	27	29
27	29	30	39	20	26	28
26	28	29	37	19	25	27
25	27	28	35	19	25	26
24	26	27	33	18	24	26
23	24	27	31	17	23	25
22	23	26	30	16	22	24
21	22	25	28	16	21	23
20	21	24	26	15	20	21
19	20	23	25	14	19	20
18	19	22	23	13	18	19
17	18	21	21	12	17	18
16	17	19	20	11	16	17
15	16	18	18	10	14	15
14	15	17	17	9	13	14
13	13	15	15	8	12	12
12	12	13	14	8	10	10
11	11	12	13	7	9	9
10	10	11	12	6	8	8
9	9	10	12	6	7	7
8	8	9	11	5	6	6
7	7	8	10	4	5	5
6	5	6	9	4	4	4
5	4	5	9	3	2	3
4	3	4	8	3	1	2
3	2	3	7	2	0	1
2	1	2	6	1	0	0
1	0	1	5	1	0	0

TABLE 120. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, EQUIPERCENTILE METHOD

CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
0	0	0	5	0	0	0

TABLE 121. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, EQUIPERCENTILE METHOD

CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
85	82	106	95	60	90	98
84	81	106	95	60	90	98
83	80	104	95	59	88	96
82	79	102	94	58	87	94
81	78	100	93	57	86	92
80	77	98	93	56	84	90
79	76	96	92	55	83	88
78	74	94	91	54	82	86
77	73	92	91	53	81	84
76	71	91	90	52	79	82
75	70	90	90	52	78	80
74	69	88	89	51	77	79
73	67	87	88	50	75	78
72	66	85	88	49	74	76
71	64	83	87	48	72	74
70	63	82	86	47	71	73
69	62	80	85	46	70	71
68	61	78	85	45	68	70
67	59	77	84	44	67	68
66	58	75	83	43	65	67
65	57	74	82	42	64	65
64	56	72	82	42	62	64
63	55	71	81	41	61	62
62	54	69	80	40	60	61
61	53	68	79	39	58	60
60	52	67	78	38	57	59
59	51	65	77	38	56	58
58	50	64	76	37	54	57
57	49	62	75	36	53	55
56	48	61	74	35	52	54
55	48	59	73	35	51	53
54	47	58	72	34	49	52
53	46	57	71	33	48	51
52	45	55	70	33	47	50
51	44	54	69	32	46	49
50	43	53	68	32	45	48
49	43	51	67	31	44	47
48	42	50	66	31	43	46
47	41	48	65	30	42	45
46	40	47	64	29	40	44
45	39	46	63	29	39	43

TABLE 121. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, EQUIPERCENTILE METHOD

CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
44	38	44	61	28	38	42
43	38	43	60	28	37	41
42	37	42	59	27	37	40
41	36	41	58	27	36	39
40	36	40	57	26	35	38
39	35	39	55	26	34	37
38	34	38	[illegible]	25	33	36
37	33	37	[illegible]	25	33	36
36	33	36	51	24	32	35
35	32	35	50	24	31	34
34	31	34	48	23	30	33
33	30	33	46	22	29	32
32	30	32	45	22	28	31
31	29	32	43	21	28	30
30	28	31	41	21	27	29
29	27	30	39	20	26	28
28	26	29	37	20	25	28
27	25	29	36	19	25	27
26	24	28	34	18	24	26
25	24	27	32	18	23	25
24	23	26	31	17	23	24
23	22	25	29	16	22	23
22	21	24	27	15	21	22
21	20	23	26	15	20	21
20	19	23	24	14	19	20
19	19	21	22	13	18	19
18	17	20	21	12	17	18
17	16	19	20	11	15	17
16	15	18	18	10	14	15
15	14	17	17	10	13	14
14	13	16	16	9	12	13
13	13	14	15	8	11	11
12	12	13	14	8	10	10
11	11	12	13	7	9	9
10	10	11	13	6	8	8
9	9	10	12	6	7	7
8	8	9	11	5	6	7
7	7	8	10	5	5	6
6	7	7	10	4	4	5
5	6	6	9	4	3	4
4	5	5	8	3	2	3

TABLE 121. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, EQUIPERCENTILE METHOD

CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
3	4	4	8	2	1	2
2	3	3	7	2	0	1
1	2	2	6	1	0	0
0	1	1	5	1	0	0

TABLE 122. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, EQUIPERCENTILE METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM C TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
106	81	84	95	60	90	98
105	81	84	95	60	89	97
104	80	83	95	59	89	96
103	80	83	94	59	88	95
102	79	82	94	58	87	94
101	79	82	94	58	87	93
100	79	81	93	57	86	92
99	78	81	93	57	85	91
98	78	80	93	56	85	90
97	77	80	92	56	84	89
96	76	79	92	55	83	88
95	75	79	92	55	82	87
94	74	78	91	54	82	86
93	73	77	91	54	81	85
92	72	77	91	53	80	83
91	71	76	90	53	80	82
90	70	75	90	52	79	81
89	69	75	89	51	78	80
88	68	74	89	51	77	79
87	68	73	88	50	76	78
86	67	73	88	50	75	77
85	66	72	88	49	74	76
84	65	72	87	48	73	75
83	64	71	87	48	72	74
82	63	70	86	47	71	73
81	63	70	86	47	71	72
80	62	69	85	46	70	71
79	61	69	85	46	69	71
78	60	68	85	45	68	70
77	60	67	84	44	67	69
76	59	67	84	44	66	68
75	58	66	83	43	65	67
74	57	65	83	43	64	66
73	57	65	82	42	63	65
72	56	64	81	42	62	64
71	55	63	81	41	61	63
70	55	62	80	40	60	62
69	54	62	80	40	59	61
68	53	61	79	39	58	60
67	52	60	78	39	57	59
66	52	59	78	38	56	58

TABLE 122. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, EQUIPERCENTILE METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
65	51	59	77	37	56	57
64	51	58	76	37	55	57
63	50	58	76	37	54	56
62	49	57	75	36	53	55
61	49	56	74	36	52	55
60	48	56	74	35	51	54
59	47	55	73	35	50	53
58	47	54	72	34	49	52
57	46	53	72	34	49	52
56	45	53	71	33	48	51
55	45	52	70	33	47	50
54	44	51	70	32	46	49
53	44	50	69	32	45	48
52	43	50	68	32	45	48
51	43	49	67	31	44	47
50	42	48	66	31	43	46
49	41	48	66	30	42	45
48	41	47	65	30	41	45
47	40	46	64	30	41	44
46	39	45	63	29	40	43
45	39	45	62	29	39	42
44	38	44	61	28	38	42
43	38	43	60	28	37	41
42	37	42	59	27	37	40
41	36	41	58	27	36	39
40	36	40	57	26	35	39
39	35	39	[illegible]	26	34	38
38	34	38	54	25	34	37
37	33	37	53	25	33	36
36	33	36	51	24	32	35
35	32	35	49	23	31	34
34	31	34	48	23	30	33
[illegible]	30	33	46	22	29	31
[illegible]	29	31	43	22	28	30
[illegible]	28	30	41	21	27	29
30	27	29	39	20	26	28
29	26	28	37	19	25	27
28	25	26	34	18	24	26
27	24	25	32	18	23	25
26	22	24	30	17	22	24
25	21	23	28	16	21	23

TABLE 122. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, EQUIPERCENTILE METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
24	20	22	27	15	20	22
23	19	21	25	14	19	21
22	18	20	23	14	18	20
21	17	19	22	13	17	19
20	17	18	21	12	16	18
19	16	17	19	11	15	16
18	15	16	18	10	14	15
17	14	15	17	9	13	14
16	14	14	16	9	12	13
15	13	14	15	9	12	12
14	13	13	15	8	11	11
13	12	12	14	8	10	10
12	11	11	13	7	9	9
11	10	10	13	6	8	8
10	9	9	12	6	7	8
9	8	8	11	5	6	7
8	8	7	10	5	5	6
7	7	6	10	4	4	5
6	6	5	9	4	3	4
5	5	4	8	3	2	3
4	4	3	8	2	1	2
3	3	2	7	2	0	1
2	2	1	6	1	0	0
1	1	0	5	1	0	0
0	0	0	5	0	0	0

TABLE 123. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, EQUIPERCENTILE METHOD

MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
95	81	84	105	60	89	97
94	79	82	102	58	87	94
93	78	81	99	57	85	91
92	76	79	96	55	83	88
91	73	78	93	54	81	85
90	71	76	91	52	79	82
89	69	74	89	51	77	79
88	67	73	86	50	75	77
87	65	71	84	48	73	75
86	63	70	81	47	71	73
85	61	69	79	46	69	71
84	60	67	77	44	67	69
83	58	66	75	43	65	67
82	57	65	73	42	63	65
81	56	63	71	41	62	63
80	54	62	70	40	60	61
79	53	61	68	39	58	60
78	52	60	67	38	57	59
77	51	59	65	37	56	57
76	50	58	63	37	54	56
75	49	57	62	36	53	55
74	48	56	60	35	52	54
73	47	55	59	35	50	53
72	46	54	58	34	49	52
71	46	53	56	33	48	51
70	45	52	55	33	47	50
69	44	51	[illegible]	32	46	49
68	43	50	52	32	45	48
67	42	49	51	31	44	47
66	42	48	50	31	43	46
65	41	47	48	30	42	45
64	40	46	47	30	41	44
63	39	46	46	29	40	43
62	39	45	45	29	39	42
61	38	44	44	28	38	42
60	38	43	43	28	37	41
59	37	42	42	27	37	40
58	36	41	41	27	36	39
57	36	40	40	26	35	39
56	35	40	39	26	35	38
55	35	39	39	25	34	37

TABLE 123. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, EQUIPERCENTILE METHOD

MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
54	34	38	38	25	33	36
53	33	37	37	25	33	36
52	33	36	36	24	32	35
51	32	36	36	24	32	34
50	32	35	35	24	31	34
49	32	35	35	23	30	33
48	31	34	34	23	30	33
47	31	33	34	23	29	32
46	30	33	33	22	29	32
45	30	32	33	22	29	31
44	29	32	32	22	28	31
43	29	31	32	21	28	30
42	28	31	31	21	27	30
41	28	30	31	21	27	29
40	27	30	31	20	26	29
39	27	29	30	20	26	28
38	26	28	30	20	26	28
37	26	28	29	19	25	27
36	25	27	29	19	25	27
35	25	27	28	19	25	26
34	24	26	28	18	24	26
33	24	25	27	18	24	25
32	23	25	27	17	23	25
31	23	24	26	17	23	24
30	22	24	26	17	22	24
29	22	23	25	16	22	23
28	21	22	[illegible]	16	21	23
27	21	22	24	15	21	22
26	20	21	24	15	20	21
25	19	21	23	14	19	21
24	19	20	23	14	19	20
23	18	19	22	13	18	19
22	18	19	21	13	18	19
21	17	18	20	12	17	18
20	16	17	20	12	16	17
19	16	17	19	11	15	16
18	15	16	18	10	14	15
17	14	15	17	9	13	14
16	13	14	16	9	12	13
15	13	13	14	8	12	12
14	12	12	13	8	10	10

TABLE 123. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1. EQUIPERCENTILE METHOD

MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
13	11	11	12	7	9	9
12	9	9	10	6	7	8
11	8	8	9	5	6	6
10	7	6	7	4	5	5
9	6	5	6	4	3	4
8	4	4	5	3	2	3
7	3	2	3	2	0	1
6	2	1	2	1	0	0
5	1	0	0	0	0	0
4	0	0	0	0	0	0
3	0	0	0	0	0	0
2	0	0	0	0	0	0
1	0	0	0	0	0	0
0	0	0	0	0	0	0

TABLE 124. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, EQUIPERCENTILE METHOD

STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
60	81	84	106	95	90	98
59	80	83	104	95	89	96
58	79	82	102	94	87	94
57	78	81	100	93	86	92
56	78	80	98	93	84	90
55	76	79	96	92	83	88
54	74	78	94	91	82	86
53	72	77	92	91	80	83
52	71	76	90	90	79	81
51	69	74	89	89	77	80
50	68	73	87	88	76	78
49	66	72	85	88	74	76
48	65	71	84	87	73	75
47	63	70	82	86	71	73
46	62	69	80	85	70	71
45	60	68	78	85	68	70
44	59	67	76	84	67	68
43	58	66	75	83	65	66
42	57	65	73	82	63	64
41	55	63	71	81	61	63
40	54	62	70	80	60	61
39	53	61	68	79	58	60
38	52	60	66	78	57	58
37	51	58	64	76	55	57
36	49	57	62	75	53	55
35	48	56	60	74	51	54
34	47	54	[illegible]	72	49	52
33	45	52	56	71	48	51
32	44	51	53	69	46	49
31	42	49	51	67	44	47
30	41	47	48	65	42	45
29	39	45	46	63	40	43
28	38	44	44	61	38	41
27	37	42	42	59	36	40
26	35	40	40	56	35	38
25	34	38	38	54	33	36
24	33	36	36	52	32	35
23	31	34	34	48	30	33
22	30	32	33	45	29	31
21	28	30	31	42	27	30
20	27	29	30	39	26	28

TABLE 124. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, EQUIPERCENTILE METHOD

STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
19	25	27	29	36	25	27
18	24	26	28	34	24	26
17	23	24	27	31	23	25
16	22	23	25	29	22	23
15	20	22	24	27	20	22
14	19	20	23	24	19	20
13	18	19	21	22	18	19
12	17	18	20	21	16	18
11	16	17	19	19	15	17
10	15	16	18	18	14	15
9	14	14	16	16	13	13
8	13	13	14	15	11	11
7	11	11	12	13	9	9
6	10	9	10	12	8	8
5	8	8	9	11	6	6
4	6	6	7	10	4	5
3	5	4	5	8	2	3
2	3	2	3	7	0	1
1	2	1	2	6	0	0
0	0	0	0	5	0	0

TABLE 125. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, EQUIPERCENTILE METHOD

SRA (71 ED.) BLUE FORM E TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
90	81	84	106	95	60	98
89	81	83	104	95	59	96
88	80	83	103	94	59	95
87	79	82	102	94	58	94
86	79	81	100	93	57	92
85	78	81	99	93	56	91
84	77	80	97	93	56	89
83	76	79	96	92	55	88
82	74	78	95	91	54	87
81	73	77	93	91	54	85
80	72	77	92	90	53	83
79	71	76	91	90	52	81
78	70	75	90	89	52	80
77	69	74	88	89	51	79
76	68	74	87	89	50	78
75	67	73	86	88	50	77
74	66	72	85	88	49	76
73	65	71	84	87	48	75
72	64	71	83	87	48	74
71	63	70	82	86	47	73
70	62	69	80	86	46	72
69	61	[illegible]	79	85	46	71
68	60	68	78	85	45	70
67	60	67	77	84	44	69
66	59	67	76	84	44	68
65	58	66	75	83	43	67
64	57	65	[illegible]	83	43	66
63	57	65	73	82	42	65
62	56	64	72	81	42	64
61	55	63	71	81	41	63
60	54	62	70	80	40	62
59	54	62	69	79	40	61
58	53	61	68	79	39	60
57	52	60	67	78	38	59
56	52	59	66	77	38	58
55	51	58	64	77	37	57
54	50	58	63	76	37	56
53	49	57	62	75	36	55
52	49	56	61	74	36	55
51	48	55	60	74	35	54
50	47	55	59	73	34	53

TABLE 125. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, EQUIPERCENTILE METHOD

SRA (71 ED.) BLUE FORM E TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
49	46	54	58	72	34	52
48	46	53	56	71	33	51
47	45	52	55	70	33	50
46	44	51	54	70	32	49
45	44	50	53	69	32	48
44	43	49	51	68	31	47
43	42	48	50	67	31	46
42	41	47	49	65	30	45
41	40	47	48	64	30	44
40	40	46	46	63	29	43
39	39	45	45	62	29	43
38	38	44	44	61	28	42
37	37	43	42	60	28	41
36	36	41	41	58	27	39
35	36	40	40	57	26	38
34	35	39	39	55	25	37
33	34	38	38	54	25	36
32	33	36	36	52	24	35
31	32	35	35	50	24	34
30	31	34	34	48	23	33
29	30	33	33	46	22	32
28	29	32	32	44	22	31
27	28	30	31	42	21	29
26	27	29	30	39	20	28
25	26	27	29	36	19	27
24	24	26	28	34	18	26
23	23	25	[illegible]	32	17	25
22	22	23	26	30	16	24
21	21	22	25	28	16	23
20	20	21	24	26	15	21
19	19	20	23	24	14	20
18	18	19	22	23	13	19
17	17	18	21	21	13	18
16	16	18	20	20	12	17
15	16	17	19	19	11	16
14	15	16	18	18	10	15
13	14	15	17	17	9	13
12	13	14	15	16	9	12
11	13	13	14	15	8	11
10	12	12	13	14	7	10
9	11	11	12	13	7	9

TABLE 125. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, EQUIPERCENTILE METHOD

SRA (71 ED.) BLUE FORM E TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
8	10	10	11	12	6	8
7	9	9	10	12	6	7
6	8	8	9	11	5	6
5	7	7	8	10	5	6
4	7	6	7	10	4	5
3	6	5	6	9	4	4
2	5	4	5	8	3	3
1	4	3	4	8	2	2
0	3	2	3	7	2	1

TABLE 126. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, EQUIPERCENTILE METHOD

SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
98	81	84	106	95	60	90
97	81	84	105	95	60	89
96	80	83	104	95	59	89
95	80	83	103	94	59	88
94	79	82	102	94	58	87
93	79	82	101	94	58	87
92	79	81	100	93	57	86
91	78	81	99	93	57	85
90	78	80	98	93	56	85
89	76	80	97	92	55	84
88	75	79	96	92	55	83
87	75	78	95	92	54	82
86	74	78	94	91	54	82
85	73	78	93	91	54	81
84	73	77	92	91	53	81
83	72	77	92	90	53	80
82	71	76	91	90	53	80
81	70	76	90	90	52	79
80	69	75	89	89	51	78
79	69	74	88	89	51	77
78	68	73	87	88	50	76
77	67	73	86	88	49	75
76	66	72	85	88	49	74
75	65	71	84	87	48	73
74	64	71	83	87	48	72
73	63	70	82	86	47	71
72	62	69	81	86	46	70
71	62	69	80	85	46	69
70	61	68	79	85	45	68
69	60	68	77	84	45	68
68	59	67	76	84	44	67
67	58	66	75	83	44	66
66	58	66	74	83	43	64
65	57	65	73	82	42	63
64	56	64	72	82	42	62
63	56	63	71	81	41	61
62	55	63	70	80	41	61
61	54	62	69	80	40	60
60	53	61	68	79	39	58
59	52	60	67	78	39	57
58	52	59	66	78	38	56

TABLE 126. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, EQUIPERCENTILE METHOD

SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
57	51	58	64	77	37	55
56	50	58	63	76	36	54
55	49	57	62	75	36	53
54	48	56	60	74	35	51
53	47	55	59	73	34	50
52	46	54	58	72	34	49
51	46	53	56	71	33	48
50	45	52	55	70	33	47
49	44	51	54	69	32	46
48	43	50	53	68	32	45
47	43	49	51	67	31	44
46	42	48	50	66	31	43
45	41	47	49	65	30	42
44	40	46	47	64	30	41
43	39	45	46	63	29	40
42	38	44	44	62	28	39
41	38	43	43	60	28	37
40	37	42	42	59	27	37
39	36	41	41	58	27	36
38	35	40	39	56	26	35
37	35	39	38	55	25	34
36	34	38	38	54	25	33
35	33	36	37	52	24	32
34	32	35	36	50	24	31
33	31	34	35	49	23	30
32	30	33	34	47	23	29
31	30	32	33	45	22	28
30	29	31	32	43	21	28
29	28	30	31	41	21	27
28	27	29	30	39	20	26
27	26	28	29	36	19	25
26	25	26	28	34	18	24
25	24	25	27	32	18	23
24	22	24	26	30	17	22
23	22	23	25	29	16	21
22	21	22	24	27	15	21
21	20	21	23	26	15	20
20	19	20	23	24	14	19
19	18	19	22	23	13	18
18	17	18	21	21	12	17
17	16	17	20	20	12	16

TABLE 126. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 1, EQUIPERCENTILE METHOD

SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
16	15	16	19	19	11	15
15	15	16	18	18	10	14
14	14	15	17	17	10	13
13	14	14	16	16	9	13
12	13	14	15	16	9	12
11	13	13	14	15	8	11
10	12	12	13	14	7	10
9	11	11	12	13	7	9
8	10	10	11	12	6	8
7	9	9	10	12	6	7
6	8	8	8	11	5	6
5	7	6	7	10	4	5
4	6	5	6	9	4	3
3	5	4	5	8	3	2
2	4	3	4	8	2	1
1	3	2	3	7	2	0
0	2	1	2	6	1	0

TABLE 127. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, LINEAR METHOD

CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
82	92	106	116	61	92	93
81	91	105	115	60	90	92
80	90	103	113	60	89	91
79	89	102	112	59	88	90
78	87	100	110	58	87	89
77	86	99	109	57	86	88
76	85	98	108	57	85	86
75	84	96	106	56	83	85
74	83	95	105	55	82	84
73	82	94	104	54	81	83
72	81	92	102	54	80	82
71	80	91	101	53	79	80
70	78	89	100	52	77	79
69	77	88	98	51	76	78
68	76	87	97	51	75	77
67	75	85	95	50	74	76
66	74	84	94	49	73	75
65	73	83	93	48	72	73
64	72	81	91	48	70	72
63	71	80	90	47	69	71
62	69	78	89	46	68	70
61	68	77	87	45	67	69
60	67	76	86	45	66	68
59	66	74	85	44	64	66
58	65	73	83	43	63	65
57	64	72	[illegible]	42	62	64
56	63	70	[illegible]	42	61	63
55	62	69	79	41	60	62
54	60	67	78	40	59	60
53	59	66	76	39	57	59
52	58	65	75	39	56	58
51	57	63	74	38	55	57
50	56	62	72	37	54	56
49	55	61	71	36	53	55
48	54	59	69	36	52	53
47	53	58	68	35	50	52
46	51	56	67	34	49	51
45	50	55	65	33	48	50
44	49	54	64	32	47	49
43	48	52	63	32	46	47
42	47	51	61	31	44	46

TABLE 127. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, LINEAR METHOD

CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
41	46	50	60	30	43	45
40	45	48	59	29	42	44
39	44	47	57	29	41	43
38	42	45	56	28	40	42
37	41	44	54	27	39	40
36	40	43	53	26	37	39
35	39	41	52	26	36	38
34	38	40	50	25	35	37
33	37	39	49	24	34	36
32	36	37	48	23	33	34
31	35	36	46	23	31	33
30	33	34	45	22	30	32
29	32	33	44	21	29	31
28	31	32	42	20	28	30
27	30	30	41	20	27	29
26	29	29	39	19	26	27
25	28	28	38	18	24	26
24	27	26	37	17	23	25
23	26	25	35	17	22	24
22	24	23	34	16	21	23
21	23	22	33	15	20	21
20	22	21	31	14	19	20
19	21	19	30	14	17	19
18	20	18	29	13	16	18
17	19	17	27	12	15	17
16	18	15	26	11	14	16
15	17	14	24	11	13	14
14	15	12	23	10	11	13
13	14	11	22	9	10	12
12	13	10	20	8	9	11
11	12	8	19	8	8	10
10	11	7	18	7	7	9
9	10	6	16	6	6	7
8	9	4	15	5	4	6
7	7	3	14	5	3	5
6	6	1	12	4	2	4
5	5	0	11	3	1	3
4	4	- 1	9	2	0	1
3	3	- 3	8	2	- 2	0
2	2	- 4	7	1	- 3	- 1
1	1	- 5	5	0	- 4	- 2

TABLE 127. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, LINEAR METHOD

CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
0	0	- 7	4	- 1	- 5	- 3

TABLE 128. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, LINEAR METHOD

CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
85	76	97	108	56	84	86
84	75	96	106	56	83	85
83	74	95	105	55	82	84
82	73	94	104	54	81	83
81	72	93	103	54	80	82
80	71	91	101	53	79	81
79	71	90	100	52	78	80
78	70	89	99	52	77	79
77	69	88	98	51	76	78
76	68	86	97	50	75	77
75	67	85	95	50	74	76
74	66	84	94	49	73	75
73	65	83	93	48	72	74
72	64	82	92	48	71	73
71	63	80	91	47	70	72
70	63	79	89	46	69	70
69	62	78	88	46	68	69
68	61	77	87	45	67	68
67	60	76	86	44	66	67
66	59	74	84	44	64	66
65	58	73	83	43	63	65
64	57	72	82	42	62	64
63	56	71	81	42	61	63
62	55	69	80	41	60	62
61	55	68	78	40	59	61
60	54	67	77	40	58	60
59	53	66	[illegible]	39	57	59
58	52	65	75	38	56	58
57	51	63	74	38	55	57
56	50	62	72	37	54	56
55	49	61	71	36	53	55
54	48	60	70	36	52	54
53	47	58	69	35	51	53
52	47	57	68	34	50	52
51	46	56	66	34	49	51
50	45	55	65	33	48	50
49	44	54	64	32	47	48
48	43	52	63	32	46	47
47	42	51	61	31	45	46
46	41	50	60	30	44	45
45	40	49	59	30	42	44

TABLE 128. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, LINEAR METHOD

CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
44	39	47	58	29	41	43
43	39	46	57	28	40	42
42	38	45	55	28	39	41
41	37	44	54	27	38	40
40	36	43	53	26	37	39
39	35	41	52	26	36	38
38	34	40	51	25	35	37
37	33	39	49	24	34	36
36	32	38	48	24	33	35
35	32	36	47	23	32	34
34	31	35	46	22	31	33
33	30	34	44	22	30	32
32	29	33	43	21	29	31
31	28	32	42	20	28	30
30	27	30	41	20	27	29
29	26	29	40	19	26	28
28	25	28	38	18	25	26
27	24	27	37	18	24	25
26	24	26	36	17	23	24
25	23	24	35	16	22	23
24	22	23	34	16	21	22
23	21	22	32	15	19	21
22	20	21	31	14	18	20
21	19	19	30	14	17	19
20	18	18	29	13	16	18
19	17	17	28	12	15	17
18	16	16	[illegible]	12	14	16
17	16	15	25	11	13	15
16	15	13	24	10	12	14
15	14	12	23	10	11	13
14	13	11	21	9	10	12
13	12	10	20	8	9	11
12	11	8	19	8	8	10
11	10	7	18	7	7	9
10	9	6	17	6	6	8
9	8	5	15	6	5	7
8	8	4	14	5	4	6
7	7	2	13	4	3	5
6	6	1	12	4	2	3
5	5	0	11	3	1	2
4	4	-1	9	2	0	1

TABLE 128. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, LINEAR METHOD

CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
3	3	- 3	8	2	- 1	0
2	2	- 4	7	1	- 2	- 1
1	1	- 5	6	0	- 4	- 2
0	0	- 6	4	0	- 5	- 3

TABLE 129. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, LINEAR METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
106	82	92	116	61	92	94
105	81	91	115	61	91	93
104	81	90	114	60	90	92
103	80	90	113	60	89	91
102	79	89	112	59	88	90
101	78	88	111	58	87	89
100	78	87	110	58	87	88
99	77	86	109	57	86	88
98	76	86	108	57	85	87
97	76	85	107	56	84	86
96	75	84	106	56	83	85
95	74	83	105	55	82	84
94	73	82	104	55	81	83
93	73	81	103	54	81	82
92	72	81	102	53	80	82
91	71	80	101	53	79	81
90	70	79	100	52	78	80
89	70	78	99	52	77	79
88	69	77	98	51	76	78
87	68	77	97	51	75	77
86	68	76	96	50	75	76
85	67	75	95	50	74	76
84	66	74	94	49	73	75
83	65	73	93	49	72	74
82	65	72	92	48	71	73
81	64	72	91	47	70	72
80	63	71	90	47	69	71
79	62	70	89	46	69	70
78	62	69	88	46	68	70
77	61	68	87	45	67	69
76	60	67	86	45	66	68
75	60	67	85	44	65	67
74	59	66	84	44	64	66
73	58	65	83	43	63	65
72	57	64	82	43	63	64
71	57	63	81	42	62	64
70	56	63	80	41	61	63
69	55	62	79	41	60	62
68	54	61	78	40	59	61
67	54	60	77	40	58	60
66	53	59	76	39	57	59

TABLE 129. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, LINEAR METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
65	52	58	75	39	57	58
64	52	58	74	38	56	57
63	51	57	73	38	55	57
62	50	56	72	37	54	56
61	49	55	71	37	53	55
60	49	54	70	36	52	54
59	48	54	69	35	51	53
58	47	53	68	35	51	52
57	46	52	67	34	50	51
56	46	51	66	34	49	51
55	45	50	65	33	48	50
54	44	49	64	33	47	49
53	44	49	63	32	46	48
52	43	48	62	32	45	47
51	42	47	61	31	45	46
50	41	46	60	30	44	45
49	41	45	59	30	43	45
48	40	45	58	29	42	44
47	39	44	57	29	41	43
46	38	43	56	28	40	42
45	38	42	55	28	39	41
44	37	41	54	27	39	40
43	36	40	53	27	38	39
42	36	40	52	26	37	39
41	35	39	51	26	36	38
40	34	38	50	25	35	37
39	33	37	49	24	34	36
38	33	36	48	24	33	35
37	32	36	47	23	33	34
36	31	35	46	23	32	33
35	30	34	45	22	31	33
34	30	33	44	22	30	32
33	29	32	43	21	29	31
32	28	31	43	21	28	30
31	28	31	42	20	27	29
30	27	30	41	20	27	28
29	26	29	40	19	26	27
28	25	28	39	18	25	27
27	25	27	38	18	24	26
26	24	26	37	17	23	25
25	23	26	36	17	22	24

TABLE 129. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, LINEAR METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM C TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
24	22	25	35	16	21	23
23	22	24	34	16	21	22
22	21	23	33	15	20	21
21	20	22	32	15	19	21
20	20	22	31	14	18	20
19	19	21	30	14	17	19
18	18	20	[illegible]	13	16	18
17	17	19	[illegible]	12	15	17
16	17	18	27	12	15	16
15	16	17	26	11	14	15
14	15	17	25	11	13	15
13	14	16	24	10	12	14
12	14	15	23	10	11	13
11	13	14	22	9	10	12
10	12	13	21	9	9	11
9	12	13	20	8	9	10
8	11	12	19	7	8	9
7	10	11	18	7	7	9
6	9	10	17	6	6	8
5	9	9	16	6	5	7
4	8	8	15	5	4	6
3	7	8	14	5	3	5
2	6	7	13	4	2	4
1	6	6	12	4	2	3
0	5	5	11	3	1	3

TABLE 130. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, LINEAR METHOD

MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
95	67	75	85	50	74	75
94	66	74	84	49	73	75
93	65	73	83	48	72	74
92	65	72	82	48	71	73
91	64	71	81	47	70	72
90	63	71	80	47	69	71
89	62	70	79	46	68	70
88	62	69	78	46	68	69
87	61	68	77	45	[illegible]	69
86	60	67	76	45	66	68
85	59	67	75	44	65	67
84	59	66	74	44	64	66
83	58	65	73	43	63	65
82	57	64	72	42	62	64
81	57	63	71	42	61	63
80	56	62	70	41	61	62
79	55	62	69	41	60	62
78	54	61	68	40	59	61
77	54	60	67	40	58	60
76	53	59	66	39	57	59
75	52	58	65	39	56	58
74	51	57	64	38	55	57
73	51	57	63	37	55	56
72	50	56	62	37	54	56
71	49	55	61	36	53	55
70	48	54	60	36	52	54
69	48	53	59	35	51	53
68	47	52	58	35	50	52
67	46	52	57	34	49	51
66	46	51	56	34	49	50
65	45	50	55	33	48	50
64	44	49	54	33	47	49
63	43	48	53	32	46	48
62	43	48	52	31	45	47
61	42	47	51	31	44	46
60	41	46	50	30	43	45
59	40	45	49	30	43	44
58	40	44	48	29	42	43
57	39	43	47	29	41	43
56	38	43	46	28	40	42
55	37	42	45	28	39	41

TABLE 130. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, LINEAR METHOD

MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
54	37	41	44	27	38	40
53	36	40	43	26	37	39
52	35	39	42	26	36	38
51	35	38	41	25	36	37
50	34	38	40	25	35	37
49	33	37	39	24	34	36
48	32	36	39	24	33	35
47	32	35	[illegible]	23	32	34
46	31	34	36	23	31	33
45	30	34	35	22	30	32
44	29	33	34	21	30	31
43	29	32	33	21	29	30
42	28	31	32	20	28	30
41	27	30	31	20	27	29
40	26	29	30	19	26	28
39	26	29	29	19	25	27
38	25	28	28	18	24	26
37	24	27	27	18	24	25
36	24	26	26	17	23	24
35	23	25	25	17	22	24
34	22	24	24	16	21	23
33	21	24	23	15	20	22
32	21	23	22	15	19	21
31	20	22	21	14	18	20
30	19	21	20	14	17	19
29	18	20	19	13	17	18
28	18	19	18	13	16	18
27	17	19	16	12	15	17
26	16	18	15	12	14	16
25	15	17	14	11	13	15
24	15	16	13	10	12	14
23	14	15	12	10	11	13
22	13	15	11	9	11	12
21	13	14	10	9	10	11
20	12	13	9	8	9	11
19	11	12	8	8	8	10
18	10	11	7	7	7	9
17	10	10	6	7	6	8
16	9	10	5	6	5	7
15	8	9	4	6	5	6
14	7	8	3	5	4	5

TABLE 130. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, LINEAR METHOD

MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
13	7	7	2	4	3	5
12	6	6	1	4	2	4
11	5	5	0	3	1	3
10	5	5	- 1	3	0	2
9	4	4	- 2	2	- 1	1
8	3	3	- 3	2	- 2	0
7	2	2	- [illegible]	1	- 2	- 1
6	2	1	- 5	1	- 3	- 1
5	1	1	- 6	0	- 4	- 2
4	0	0	- 7	- 1	- 5	- 3
3	- 1	- 1	- 8	- 1	- 6	- 4
2	- 1	- 2	- 9	- 2	- 7	- 5
1	- 2	- 3	- 10	- 2	- 8	- 6
0	- 3	- 4	- 11	- 3	- 8	- 7

TABLE 131. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, LINEAR METHOD

STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
60	81	90	104	114	90	92
59	79	89	102	112	88	90
58	78	87	100	110	87	89
57	77	86	99	109	85	87
56	75	84	97	107	84	86
55	74	83	95	105	82	84
54	73	81	93	103	81	82
53	71	80	91	101	79	81
52	70	78	89	100	77	79
51	69	77	88	98	76	78
50	67	75	86	96	74	76
49	66	74	84	94	73	75
48	65	72	82	92	71	73
47	63	71	80	90	70	71
46	62	69	78	89	68	70
45	61	68	77	87	66	68
44	59	66	75	85	65	67
43	58	65	73	83	63	65
42	57	63	71	81	62	64
41	55	62	69	80	60	62
40	54	60	68	78	59	60
39	53	59	66	76	57	59
38	51	57	64	74	56	57
37	50	56	62	72	54	56
36	49	55	60	70	52	54
35	47	53	58	69	51	53
34	46	52	57	67	49	51
33	45	50	55	65	48	49
32	43	49	53	63	46	48
31	42	47	51	61	45	46
30	41	46	49	60	43	45
29	39	44	47	58	41	43
28	38	43	46	56	40	42
27	37	41	44	54	38	40
26	35	40	42	52	37	39
25	34	38	40	51	35	37
24	33	37	38	49	34	35
23	31	35	36	47	32	34
22	30	34	35	45	30	32
21	29	32	33	43	29	31
20	28	31	31	41	27	29

TABLE 131. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, LINEAR METHOD

STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
19	26	29	29	40	26	28
18	25	28	27	38	24	26
17	24	26	26	36	23	24
16	22	25	24	34	21	23
15	21	23	22	32	19	21
14	20	22	20	31	18	20
13	18	20	18	29	16	18
12	17	19	16	27	15	17
11	16	17	15	25	13	15
10	14	16	13	23	12	13
9	13	14	11	21	10	12
8	12	13	9	20	9	10
7	10	11	7	18	7	9
6	9	10	5	16	5	7
5	8	8	4	14	4	6
4	6	7	2	12	2	4
3	5	5	0	11	1	2
2	4	4	- 2	9	- 1	1
1	2	2	- 4	7	- 2	- 1
0	1	1	- 6	5	- 4	- 2

TABLE 132. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, LINEAR METHOD

SRA (71 ED.) BLUE FORM E TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
90	81	91	104	114	60	92
89	80	90	103	113	59	91
88	79	89	102	112	59	90
87	78	88	101	111	58	89
86	77	87	99	110	58	88
85	77	86	98	108	57	87
84	76	85	97	107	56	86
83	75	84	96	106	56	85
82	74	83	95	105	55	84
81	73	82	94	104	54	83
80	72	81	92	103	54	82
79	71	80	91	101	53	81
78	71	79	90	100	52	80
77	70	78	89	99	52	79
76	69	77	88	98	51	78
75	68	76	87	97	51	77
74	67	75	85	96	50	76
73	66	74	84	94	49	75
72	65	73	83	93	49	74
71	65	72	82	92	48	73
70	64	71	81	91	47	72
69	63	70	80	90	47	71
68	62	69	78	89	46	70
67	61	69	77	87	45	69
66	60	68	76	86	45	68
65	60	67	75	85	44	67
64	59	66	74	84	44	66
63	58	65	73	83	43	65
62	57	64	71	82	42	64
61	56	63	70	81	42	63
60	55	62	69	79	41	62
59	54	61	68	78	40	61
58	54	60	67	77	40	60
57	53	59	66	76	39	59
56	52	58	64	75	38	58
55	51	57	63	74	38	57
54	50	56	62	72	37	56
53	49	55	61	71	36	55
52	48	54	60	70	36	54
51	48	53	59	69	35	53
50	47	52	57	68	35	52

TABLE 132. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, LINEAR METHOD

SRA (71 ED.) BLUE FORM E TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
49	46	51	56	67	34	51
48	45	50	55	65	33	50
47	44	49	54	64	33	49
46	43	48	53	63	32	48
45	43	47	52	62	31	47
44	42	47	51	61	31	46
43	41	46	49	60	30	45
42	40	45	48	59	29	44
41	39	44	47	57	29	43
40	38	43	46	56	28	42
39	37	42	45	55	28	41
38	37	41	44	54	27	40
37	36	40	42	53	26	39
36	35	39	41	52	26	38
35	34	38	40	50	25	37
34	33	37	39	49	24	36
33	32	36	38	48	24	35
32	32	35	37	47	23	34
31	31	34	35	46	22	33
30	30	33	34	45	22	32
29	29	32	33	43	21	31
28	28	31	32	42	21	30
27	27	30	31	41	20	29
26	26	29	30	40	19	28
25	26	28	28	39	19	27
24	25	27	27	38	18	26
23	24	26	26	37	17	25
22	23	26	25	35	17	24
21	22	25	24	34	16	23
20	21	24	23	33	15	22
19	20	23	21	32	15	21
18	20	22	20	31	14	20
17	19	21	19	30	13	19
16	18	20	18	28	13	18
15	17	19	17	27	12	17
14	16	18	16	26	12	16
13	15	17	14	25	11	15
12	15	16	13	24	10	14
11	14	15	12	23	10	13
10	13	14	11	21	9	12
9	12	13	10	20	8	11

TABLE 132. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, LINEAR METHOD

SRA (71 ED.) BLUE FORM E TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
8	11	12	9	19	8	10
7	10	11	7	18	7	9
6	9	10	6	17	6	8
5	9	9	5	16	6	7
4	8	8	4	14	5	6
3	7	7	3	13	5	5
2	6	6	2	12	4	4
1	5	5	0	11	3	3
0	4	4	-1	10	3	2

TABLE 133. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, LINEAR METHOD

SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
98	86	96	111	121	64	96
97	85	95	110	120	63	95
96	84	94	109	119	63	94
95	83	94	108	118	62	93
94	83	93	107	117	61	92
93	82	92	105	115	61	91
92	81	91	104	114	60	90
91	80	90	103	113	60	89
90	79	89	102	112	59	88
89	78	88	101	111	58	87
88	77	87	100	110	58	86
87	77	86	98	109	57	85
86	76	85	97	107	56	84
85	75	84	96	106	56	83
84	74	83	95	105	55	82
83	73	82	94	104	54	81
82	72	81	93	103	54	80
81	72	80	91	102	53	79
80	71	79	90	100	53	78
79	70	78	89	99	52	77
78	69	77	88	98	51	76
77	68	76	87	97	51	75
76	67	75	86	96	50	74
75	66	74	84	95	49	73
74	66	73	83	93	49	72
73	65	73	82	92	48	71
72	64	72	81	91	47	70
71	63	71	80	90	47	69
70	62	70	79	89	46	68
69	61	69	78	88	46	67
68	61	68	76	87	45	66
67	60	67	75	85	44	65
66	59	66	74	84	44	64
65	58	65	73	83	43	63
64	57	64	72	82	42	62
63	56	63	71	81	42	61
62	55	62	69	80	41	60
61	55	61	68	78	40	59
60	54	60	67	77	40	58
59	53	59	66	76	39	57
58	52	58	65	75	39	56

TABLE 133. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, LINEAR METHOD

SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
57	51	57	64	74	38	55
56	50	56	62	73	37	54
55	49	55	61	71	37	53
54	49	54	60	70	36	52
53	48	53	59	69	35	51
52	47	52	58	68	35	50
51	46	51	57	67	34	49
50	45	51	55	66	33	48
49	44	50	54	65	33	47
48	44	49	53	63	32	46
47	43	48	52	62	31	45
46	42	47	51	61	31	44
45	41	46	50	60	30	43
44	40	45	48	59	30	42
43	39	44	47	58	29	41
42	38	43	46	56	28	40
41	38	42	45	55	28	39
40	37	41	44	54	27	38
39	36	40	43	53	26	37
38	35	39	41	52	26	36
37	34	38	40	51	25	35
36	33	37	39	49	24	34
35	33	36	38	48	24	33
34	32	35	37	47	23	32
33	21	34	36	46	23	31
32	30	33	34	45	22	30
31	29	32	33	44	21	29
30	28	31	32	43	21	28
29	27	30	31	41	20	27
28	27	30	30	40	19	26
27	26	29	29	39	19	25
26	25	28	27	38	18	24
25	24	27	26	37	17	23
24	23	26	25	36	17	22
23	22	25	24	34	16	21
22	22	24	23	33	16	20
21	21	23	22	32	15	19
20	20	22	20	31	14	18
19	19	21	19	30	14	17
18	18	20	18	29	13	16
17	17	19	17	27	12	15

TABLE 133. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, LINEAR METHOD

SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
16	16	18	16	26	12	14
15	16	17	15	25	11	13
14	15	16	13	24	10	12
13	14	15	12	23	10	11
12	13	14	11	22	9	10
11	12	13	10	21	9	9
10	11	12	9	19	8	8
9	11	11	6	18	7	7
8	10	10	6	17	7	6
7	9	9	5	16	6	5
6	8	9	4	15	5	4
5	7	8	3	14	5	3
4	6	7	2	12	4	2
3	5	6	1	11	3	1
2	5	5	- 1	10	3	0
1	4	4	- 2	9	2	- 1
0	3	3	- 3	8	2	- 2

TABLE 134. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, EQUIPERCENTILE METHOD

CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
82	85	102	95	60	90	98
91	84	101	95	59	89	96
80	83	100	94	59	88	94
79	82	99	94	58	87	92
78	81	98	93	57	86	91
77	80	97	93	56	85	89
76	79	95	92	55	84	88
75	78	94	9[illegible]	55	83	86
74	78	93	91	54	82	85
73	77	92	91	53	81	84
72	76	91	90	53	80	83
71	76	90	90	52	79	82
70	75	89	89	52	78	80
69	74	88	89	51	77	79
68	74	87	88	50	76	78
67	73	86	88	50	75	77
66	72	84	87	49	74	76
65	71	83	87	48	73	74
64	70	82	86	48	72	73
63	69	81	86	47	71	72
62	69	79	85	46	70	70
61	68	78	85	45	69	69
60	67	77	84	45	68	68
59	66	76	83	44	66	67
58	65	74	83	43	65	66
57	65	73	82	42	64	64
56	64	72	31	42	63	63
55	63	70	80	41	61	62
54	62	69	80	40	60	61
53	61	68	79	39	58	59
52	60	66	78	39	57	58
51	59	65	77	38	55	57
50	58	63	76	37	54	56
49	56	62	75	36	52	54
48	55	60	74	36	51	53
47	54	58	73	35	50	52
46	53	56	72	34	48	50
45	52	55	70	33	47	49
44	51	53	69	33	45	48
43	50	52	68	32	44	47
42	48	50	66	31	43	45

TABLE 134. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, EQUIPERCENTILE METHOD

CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
41	47	48	64	30	41	44
40	46	46	63	29	40	43
39	44	45	61	29	39	42
38	43	43	60	28	37	40
37	42	41	58	27	36	39
36	40	40	56	27	35	38
35	39	39	55	26	34	37
34	38	37	53	25	33	36
33	36	36	51	24	32	34
32	35	34	49	23	31	33
31	34	33	47	22	30	32
30	32	32	45	22	29	31
29	31	31	43	21	28	30
28	30	30	41	20	27	29
27	29	30	39	19	26	28
26	28	29	37	19	25	27
25	27	28	36	18	25	27
24	26	27	34	17	24	26
23	24	26	31	17	23	25
22	23	26	29	16	22	24
21	22	25	28	15	21	23
20	21	24	26	15	20	22
19	20	23	25	14	20	21
18	19	22	23	13	19	20
17	18	21	22	12	18	19
16	18	20	20	11	17	18
15	17	19	19	11	16	17
14	16	18	18	10	15	15
13	14	16	16	9	14	13
12	13	15	15	8	12	11
11	11	13	13	8	11	9
10	10	11	12	7	10	8
9	8	9	11	6	8	7
8	6	7	9	5	7	5
7	5	5	8	5	6	4
6	3	3	7	4	4	3
5	1	1	5	3	3	1
4	0	0	4	2	2	0
3	0	0	3	1	1	0
2	0	0	1	1	0	0
1	0	0	0	0	0	0

TABLE 134. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, EQUIPERCENTILE METHOD

CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
0	0	0	0	0	0	0

TABLE 135. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, EQUIPERCENTILE METHOD

CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
85	82	102	95	60	90	98
84	81	101	95	59	89	96
83	80	100	94	59	88	94
82	79	99	94	58	87	92
81	78	98	93	57	86	91
80	77	97	93	56	85	89
79	76	95	92	55	84	87
78	74	93	91	54	83	86
77	73	92	91	53	81	84
76	72	91	90	52	80	82
75	70	89	89	52	79	81
74	69	87	89	51	77	79
73	67	86	88	50	76	77
72	66	84	87	49	74	76
71	65	83	87	48	73	74
70	64	81	86	47	72	73
69	63	80	85	47	71	71
68	61	78	85	46	69	70
67	60	77	84	45	68	68
66	59	75	83	44	66	67
65	58	74	82	43	65	65
64	56	72	82	42	63	63
63	55	71	81	41	62	62
62	54	69	80	40	60	61
61	53	68	79	40	58	60
60	52	67	78	39	57	59
59	51	65	77	38	56	57
58	50	64	76	37	54	56
57	50	62	75	37	53	55
56	49	61	74	36	52	54
55	48	60	74	36	51	53
54	47	58	72	35	49	51
53	46	56	71	34	48	50
52	45	55	70	33	47	49
51	44	54	69	33	46	48
50	43	52	68	32	44	47
49	43	51	67	31	43	46
48	42	50	66	31	42	45
47	41	48	65	30	41	44
46	40	47	63	30	40	43
45	40	46	62	29	39	42

TABLE 135. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, EQUIPERCENTILE METHOD

CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
44	39	44	61	29	38	41
43	38	43	60	28	38	40
42	37	42	58	27	37	39
41	36	41	57	27	36	38
40	36	40	56	26	35	38
39	35	39	54	26	34	37
38	34	37	53	25	33	36
37	33	36	.2	24	32	35
36	33	35	50	24	31	34
35	32	35	49	23	31	33
34	31	34	48	23	30	33
33	31	33	46	22	29	32
32	30	32	45	22	29	31
31	29	31	43	21	28	30
30	28	31	42	20	27	30
29	27	30	40	20	26	29
28	26	29	38	19	26	28
27	26	28	36	18	25	27
26	25	28	35	18	24	26
25	24	27	33	17	23	25
24	23	26	31	17	23	24
23	22	25	29	16	22	23
22	21	24	27	15	21	23
21	20	24	26	14	20	22
20	19	23	24	14	19	21
19	18	22	23	13	19	20
18	17	21	21	12	17	18
17	15	20	20	11	16	17
16	14	18	18	10	15	16
15	13	17	17	10	14	14
14	13	16	16	9	13	12
13	12	15	15	9	12	11
12	11	14	14	8	11	10
11	11	12	13	8	11	9
10	10	11	12	7	10	8
9	10	10	11	7	9	8
8	9	9	11	6	8	7
7	8	8	10	6	8	6
6	8	7	9	5	7	5
5	7	6	8	5	6	4
4	7	5	7	4	5	3

TABLE 135. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, EQUIPERCENTILE METHOD

CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
3	6	3	7	4	4	3
2	5	2	6	3	4	2
1	5	1	5	3	3	1
0	4	0	4	2	2	0

TABLE 136. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, EQUIPERCENTILE METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM C TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
106	82	85	95	60	90	98
105	82	85	95	60	90	98
104	82	85	95	60	90	98
103	82	85	95	60	90	98
102	82	85	95	60	90	98
101	81	84	95	59	89	96
100	80	83	94	59	88	95
99	79	82	94	58	87	93
98	78	81	93	57	86	91
97	77	81	93	56	85	90
96	77	80	92	56	84	88
95	76	79	92	55	84	87
94	75	78	92	55	83	86
93	74	78	91	54	82	85
92	73	77	91	53	81	84
91	72	76	90	53	80	83
90	71	76	90	52	79	82
89	70	75	89	52	79	81
88	69	74	89	51	78	80
87	68	74	88	51	77	79
86	67	73	88	50	76	78
85	67	72	88	49	75	76
84	66	72	87	49	74	75
83	65	71	87	48	73	74
82	64	71	86	48	73	73
81	63	70	86	47	72	72
80	63	69	85	47	71	71
79	62	68	85	46	70	70
78	61	68	84	45	69	69
77	60	67	84	45	68	68
76	59	66	84	44	67	67
75	59	66	83	43	66	66
74	58	65	82	43	65	65
73	57	65	82	42	64	64
72	56	64	81	42	63	63
71	56	63	81	41	62	62
70	55	63	80	41	61	62
69	54	62	80	40	60	61
68	53	61	79	40	59	60
67	53	60	78	39	58	59
66	52	60	78	39	56	58

TABLE 136. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, EQUIPERCENTILE METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
65	51	59	77	38	55	57
64	51	58	76	38	54	56
63	50	57	76	37	54	55
62	49	57	75	37	53	55
61	49	56	74	36	52	54
60	48	55	74	36	51	53
59	48	55	73	35	50	52
58	47	54	73	35	49	52
57	46	54	72	34	48	51
56	46	53	71	34	48	50
55	45	52	70	33	47	49
54	45	51	70	33	46	48
53	44	51	69	32	45	48
52	43	50	68	32	44	47
51	43	49	67	32	44	46
50	42	48	66	31	43	46
49	42	48	65	31	42	45
48	41	47	65	30	41	44
47	41	46	64	30	40	43
46	40	45	62	29	40	43
45	39	45	61	29	39	42
44	39	44	60	28	38	41
43	38	43	59	28	37	40
42	37	42	59	27	37	39
41	37	41	58	27	36	39
40	36	41	56	27	35	38
39	35	40	55	26	34	37
38	35	39	54	25	34	36
37	34	38	52	25	33	35
36	33	37	51	24	32	35
35	32	36	50	24	31	34
34	32	34	48	23	30	33
33	31	33	46	22	29	32
32	30	32	45	21	28	31
31	29	31	43	21	28	30
30	28	29	40	20	27	29
29	26	28	38	19	26	28
28	25	27	36	18	25	27
27	24	25	33	17	24	26
26	23	24	31	17	23	24
25	21	23	28	16	22	23

TABLE 136. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, EQUIPERCENTILE METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
24	20	22	27	15	21	22
23	19	20	25	14	20	21
22	18	19	23	13	19	20
21	17	18	22	12	18	19
20	16	18	20	11	17	18
19	15	17	19	11	16	17
18	14	16	18	10	15	15
17	13	15	17	10	14	14
16	13	14	16	9	13	13
15	12	13	15	9	12	11
14	12	12	14	8	12	10
13	11	12	14	8	11	10
12	11	11	13	7	10	9
11	10	10	12	7	10	8
10	10	9	11	7	9	7
9	9	8	11	6	8	7
8	9	7	10	6	8	6
7	8	6	9	5	7	5
6	7	5	8	5	6	5
5	7	5	8	4	6	4
4	6	4	7	4	5	3
3	6	3	6	4	4	2
2	5	2	6	3	4	2
1	5	1	5	3	3	1
0	4	0	4	2	2	0

TABLE 137. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, EQUIPERCENTILE METHOD

MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
95	82	85	102	60	90	97
94	80	83	99	58	87	94
93	78	81	97	57	85	90
92	76	79	95	55	84	87
91	74	78	93	54	82	85
90	72	76	91	53	80	83
89	70	75	89	51	79	80
88	68	73	86	50	76	78
87	66	72	84	49	74	75
86	64	70	81	48	72	73
85	62	69	79	46	70	70
84	60	67	77	45	68	68
83	59	66	75	44	66	66
82	57	65	73	42	64	64
81	56	63	71	41	62	63
80	55	62	70	41	60	61
79	53	61	68	40	58	60
78	52	60	66	39	57	58
77	51	59	65	38	55	57
76	50	58	63	37	54	56
75	49	57	62	37	53	54
74	48	56	60	36	51	53
73	47	55	59	35	50	52
72	46	54	57	35	49	51
71	46	53	56	34	47	50
70	45	52	55	33	46	49
69	44	51	53	33	45	48
68	43	50	52	32	44	47
67	43	49	51	31	43	46
66	42	48	50	31	43	45
65	41	47	49	30	42	45
64	41	46	48	30	41	44
63	40	46	47	30	40	43
62	40	45	46	29	39	42
61	39	44	45	29	39	42
60	38	43	44	28	38	41
59	38	43	43	28	37	40
58	37	42	42	27	36	39
57	36	41	41	27	36	38
56	36	40	40	26	35	38
55	35	40	39	26	34	37

TABLE 137. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, EQUIPERCENTILE METHOD

MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
54	35	39	38	26	34	36
53	34	38	37	25	33	36
52	34	37	37	25	33	35
51	33	37	36	24	32	35
50	33	36	35	24	31	34
49	32	35	35	23	31	33
48	32	34	34	23	30	33
47	31	34	33	22	30	32
46	31	33	33	22	29	32
45	30	32	32	22	29	31
44	30	32	32	21	28	31
43	29	31	31	21	28	30
42	29	30	31	20	27	30
41	28	30	30	20	27	29
40	27	29	30	20	26	29
39	27	29	29	19	26	28
38	26	28	29	19	26	28
37	26	27	29	19	25	27
36	25	27	28	18	25	27
35	25	26	28	18	24	26
34	24	26	27	18	24	26
33	24	25	27	17	24	25
32	23	25	27	17	23	25
31	23	24	26	17	23	25
30	22	24	26	16	22	24
29	22	23	25	16	22	24
28	21	23	25	15	21	23
27	21	22	24	15	21	22
26	20	21	24	15	20	22
25	19	21	23	14	20	21
24	19	20	23	14	19	21
23	18	19	22	13	19	20
22	17	19	21	12	18	19
21	17	18	21	12	18	18
20	16	17	20	11	17	17
19	15	17	19	11	16	16
18	14	16	18	10	15	15
17	13	15	17	10	14	14
16	13	14	16	9	13	13
15	12	13	15	9	13	11
14	12	12	14	8	12	10

TABLE 137. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, EQUIPERCENTILE METHOD

MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
13	11	11	12	8	11	9
12	10	10	11	7	10	8
11	9	9	10	6	9	7
10	9	7	8	6	8	6
9	8	6	7	5	7	5
8	7	5	5	5	6	4
7	6	4	4	4	5	3
6	6	2	3	3	4	2
5	5	1	1	3	3	1
4	4	0	0	2	2	0
3	3	0	0	2	1	0
2	3	0	0	1	0	0
1	2	0	0	0	0	0
0	1	0	0	0	0	0

TABLE 138. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, EQUIPERCENTILE METHOD

STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
60	82	85	102	95	90	97
59	81	84	101	95	89	95
58	79	82	99	94	87	93
57	78	81	98	93	86	91
56	77	80	97	93	85	89
55	76	79	95	92	84	87
54	74	78	93	91	82	85
53	73	77	92	90	81	83
52	71	76	90	90	79	81
51	69	74	88	89	78	80
50	67	73	86	88	76	78
49	66	72	84	87	74	76
48	65	71	82	86	73	74
47	63	70	81	86	71	72
46	62	69	79	85	70	70
45	61	67	78	84	68	69
44	59	66	76	84	67	67
43	58	65	74	83	65	65
42	57	64	72	82	63	64
41	55	63	71	81	61	62
40	54	62	69	80	59	61
39	53	60	67	78	57	59
38	51	59	65	77	55	57
37	50	57	63	76	53	55
36	48	56	61	74	51	53
35	47	54	58	73	50	52
34	46	53	[illegible]	71	48	50
33	45	52	54	70	46	49
32	43	50	52	68	44	47
31	42	49	50	66	43	45
30	41	47	48	64	41	44
29	40	45	45	62	39	42
28	38	43	43	60	38	40
27	37	41	41	58	36	39
26	35	40	39	55	35	37
25	34	38	37	53	33	36
24	33	36	36	51	32	34
23	32	35	34	48	30	33
22	31	33	33	46	29	32
21	29	31	32	44	28	30
20	28	30	30	41	27	29

TABLE 138. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, EQUIPERCENTILE METHOD

STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
19	26	28	29	38	26	28
18	25	26	28	35	24	26
17	23	25	27	32	23	25
16	22	23	25	29	22	24
15	21	22	24	27	21	22
14	19	21	23	25	20	21
13	18	19	22	23	19	20
12	17	18	21	21	18	19
11	16	17	20	20	16	17
10	14	16	18	18	15	15
9	13	14	16	16	13	12
8	11	12	14	14	11	10
7	10	10	11	12	10	8
6	9	8	9	11	8	7
5	8	6	6	9	7	5
4	6	4	4	7	5	3
3	5	2	2	5	3	1
2	4	0	0	4	2	0
1	3	0	0	2	0	0
0	1	0	0	0	0	0

TABLE 139. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, EQUIPERCENTILE METHOD

SRA (71 ED.) BLUE FORM E TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
90	82	85	102	95	60	98
89	81	84	101	95	59	96
88	80	83	100	94	59	94
87	79	82	99	94	58	93
86	78	81	98	93	57	91
85	77	80	97	93	56	90
84	76	79	96	92	55	88
83	75	78	94	92	55	86
82	74	78	93	91	54	85
81	73	77	92	90	53	84
80	72	76	91	90	53	82
79	71	75	90	89	52	81
78	70	75	88	89	51	80
77	69	74	87	89	51	79
76	68	73	86	88	50	78
75	67	73	85	88	50	77
74	66	72	84	87	49	75
73	65	71	83	87	48	74
72	64	70	81	86	47	73
71	63	69	80	86	47	71
70	62	69	79	85	46	70
69	61	68	78	85	46	69
68	60	67	77	84	45	68
67	60	67	76	84	44	67
66	59	66	75	83	44	66
65	58	65	74	83	43	65
64	57	65	73	82	42	64
63	56	64	72	81	42	63
62	56	63	71	81	41	63
61	55	63	70	80	41	62
60	54	62	69	80	40	61
59	54	61	68	79	40	60
58	53	61	68	79	39	59
57	52	60	67	78	39	59
56	52	59	66	77	38	58
55	51	59	65	77	38	57
54	50	58	64	76	37	56
53	50	57	62	75	37	55
52	49	56	61	75	36	54
51	48	55	60	74	36	53
50	47	55	59	73	35	52

TABLE 139. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, EQUIPERCENTILE METHOD

SRA (71 ED.) BLUE FORM E TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
49	47	54	58	72	35	51
48	46	53	57	72	34	50
47	45	52	55	71	34	49
46	45	52	54	70	33	49
45	44	51	53	69	32	48
44	43	50	52	68	32	47
43	42	49	50	67	31	46
42	42	48	49	55	31	45
41	41	47	48	54	30	44
40	40	46	46	63	30	43
39	39	45	45	62	29	42
38	39	44	44	60	28	41
37	38	43	42	59	28	40
36	37	41	41	58	27	39
35	36	40	40	56	26	38
34	35	39	39	54	26	37
33	34	38	37	53	25	36
32	33	37	36	51	24	35
31	33	36	35	50	24	34
30	32	34	34	48	23	33
29	31	33	33	46	22	32
28	29	31	32	44	21	31
27	28	30	30	41	20	29
26	27	29	29	39	19	28
25	26	27	28	37	19	27
24	24	26	27	34	18	26
23	23	25	27	32	17	25
22	22	23	26	29	16	24
21	21	22	25	27	15	23
20	19	21	23	25	14	21
19	18	20	22	23	13	20
18	17	19	21	22	12	19
17	16	18	20	21	12	18
16	15	17	19	19	11	17
15	14	16	18	18	10	15
14	13	15	17	17	10	14
13	13	14	16	16	9	12
12	12	13	14	15	8	11
11	11	12	13	13	8	10
10	10	10	12	12	7	9
9	10	9	10	11	7	7

TABLE 139. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, EQUIPERCENTILE METHOD

SRA (71 ED.) BLUE FORM E TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
8	9	8	9	10	6	6
7	8	6	7	9	5	5
6	7	5	6	8	5	4
5	6	4	4	7	4	3
4	6	2	3	6	3	2
3	5	1	1	5	3	1
2	4	0	0	4	2	0
1	3	0	0	3	2	0
0	3	0	0	2	1	0

TABLE 140. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, EQUIPERCENTILE METHOD

SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
98	82	85	102	95	60	90
97	82	85	102	95	60	90
96	81	84	101	95	59	89
95	81	84	100	95	59	88
94	80	83	100	94	58	88
93	79	82	99	94	58	87
92	79	82	99	94	58	87
91	78	81	93	93	57	86
90	78	81	97	93	57	85
89	77	80	97	93	56	85
88	76	80	96	92	56	84
87	76	79	95	92	55	84
86	75	78	94	92	54	83
85	74	78	93	91	54	82
84	73	77	92	91	53	81
83	72	76	91	90	53	81
82	71	76	90	90	52	80
81	71	75	89	89	52	79
80	70	75	88	89	51	78
79	69	74	88	89	51	77
78	68	73	87	88	50	76
77	67	73	86	88	50	75
76	66	72	85	87	49	75
75	66	72	84	87	49	74
74	65	71	83	87	48	73
73	64	70	82	86	48	72
72	63	70	81	86	47	72
71	63	69	80	85	47	71
70	62	68	79	85	46	70
69	61	68	78	84	45	69
68	60	67	77	84	45	68
67	59	66	76	83	44	67
66	58	66	75	83	43	66
65	58	65	74	82	43	65
64	57	64	73	82	42	64
63	56	64	72	81	42	63
62	55	63	71	81	41	61
61	54	62	69	80	40	60
60	54	61	68	79	40	59
59	53	60	67	79	39	58
58	52	60	66	78	39	56

TABLE 140. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, EQUIPERCENTILE METHOD

SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
57	51	59	65	77	38	55
56	50	58	64	76	37	54
55	50	57	63	75	37	53
54	49	56	61	75	36	52
53	48	55	60	74	36	51
52	47	55	59	73	35	50
51	47	54	57	72	35	49
50	46	53	56	71	34	48
49	45	52	55	70	33	47
48	44	51	54	69	33	46
47	43	50	52	68	32	45
46	43	49	51	67	31	43
45	42	48	49	66	31	42
44	41	47	48	64	30	41
43	40	46	47	63	30	40
42	39	45	45	62	29	39
41	39	44	44	60	28	38
40	38	43	43	59	28	37
39	37	42	41	58	27	36
38	36	41	40	57	27	35
37	35	40	39	55	26	34
36	34	38	38	54	25	33
35	34	37	37	52	25	32
34	33	36	35	50	24	31
33	32	35	34	48	23	30
32	31	33	33	47	22	29
31	30	32	32	45	21	28
30	29	31	31	43	21	28
29	28	29	30	41	20	27
28	27	28	29	39	19	26
27	26	27	28	37	18	25
26	25	26	27	34	18	24
25	23	25	27	32	17	23
24	22	24	26	30	16	22
23	21	23	25	28	16	21
22	20	21	24	26	15	21
21	19	20	23	25	14	20
20	18	19	22	23	13	19
19	17	19	21	22	12	18
18	16	18	20	21	12	17
17	15	17	19	20	11	16

TABLE 140. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 2, EQUIPERCENTILE METHOD

SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
16	15	16	19	19	11	16
15	14	16	18	18	10	15
14	13	15	17	17	10	14
13	13	14	16	16	9	14
12	13	14	16	16	9	13
11	12	13	15	15	9	12
10	12	12	14	14	8	12
9	11	11	12	13	7	11
8	10	10	11	12	7	10
7	9	8	10	11	6	9
6	9	7	8	10	6	8
5	8	6	7	9	5	7
4	7	5	5	8	5	6
3	6	4	4	7	4	5
2	6	2	3	6	3	4
1	5	1	1	5	3	3
0	4	0	0	4	2	2

TABLE 141. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, LINEAR METHOD

CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
82	90	105	114	61	90	93
81	89	104	112	60	89	91
80	89	103	111	59	87	90
79	87	101	110	59	86	89
78	86	100	108	58	85	88
77	85	98	107	57	84	87
76	83	97	105	56	83	85
75	82	96	104	56	81	84
74	81	94	103	55	80	83
73	80	93	101	54	79	82
72	79	92	100	53	78	81
71	78	90	99	53	77	79
70	77	89	97	52	75	78
69	76	87	96	51	74	77
68	74	86	95	50	73	76
67	73	85	93	50	72	75
66	72	83	92	49	71	73
65	71	82	91	48	69	72
64	70	81	89	47	68	71
63	69	79	88	47	67	70
62	68	78	87	46	66	69
61	66	76	85	45	65	67
60	65	75	84	44	63	66
59	64	74	82	44	62	65
58	63	72	81	43	61	64
57	62	71	80	42	60	63
56	61	70	78	41	58	61
55	60	68	77	41	57	60
54	59	67	76	40	56	59
53	57	65	74	39	55	58
52	56	64	73	38	54	57
51	55	63	72	38	52	55
50	54	61	70	37	51	54
49	53	60	69	36	50	53
48	52	59	68	35	49	52
47	51	57	66	35	48	51
46	49	56	65	34	46	49
45	48	54	63	33	45	48
44	47	53	62	32	44	47
43	46	52	61	32	43	46
42	45	50	59	31	42	45

TABLE 141. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, LINEAR METHOD

CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
41	44	49	58	30	40	43
40	43	48	57	30	39	42
39	42	46	55	29	38	41
38	40	45	54	28	37	40
37	39	43	53	27	36	[illegible]
36	38	42	51	27	34	37
35	37	[illegible]	50	26	33	36
34	36	39	49	25	32	35
33	35	38	47	24	31	34
32	34	37	46	24	29	33
31	33	35	44	23	28	31
30	31	34	43	22	27	30
29	30	32	42	21	26	29
28	29	31	40	21	25	28
27	28	30	39	20	23	27
26	27	28	38	19	22	25
25	26	27	36	18	21	24
24	25	26	35	18	20	23
23	23	24	34	17	19	22
22	22	23	32	16	17	21
21	21	21	31	15	16	19
20	20	20	30	15	15	18
19	19	19	28	14	14	17
18	18	17	27	13	13	16
17	17	16	25	12	11	15
16	16	15	24	12	10	13
15	14	13	[illegible]	11	9	12
14	13	12	21	10	8	11
13	12	10	20	9	7	10
12	11	9	19	9	5	9
11	10	8	17	8	4	7
10	9	6	16	7	3	6
9	8	5	15	6	2	5
8	6	4	13	6	0	4
7	5	2	12	5	-1	3
6	4	1	11	4	-2	1
5	3	-1	9	3	-3	0
4	2	-2	8	3	-4	-1
3	1	-3	6	2	-6	-2
2	0	-5	5	1	-7	-3
1	-1	-6	4	0	-8	-5

TABLE 141. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, LINEAR METHOD

CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM C TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
0	- 3	- 7	2	0	- 9	- 6

TABLE 142. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, LINEAR METHOD

CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	IIBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
85	77	99	107	57	84	87
84	77	98	106	57	83	86
83	76	97	105	56	82	85
82	75	95	104	55	81	84
81	74	94	103	55	80	83
80	73	93	101	54	79	82
79	72	92	100	53	78	81
78	71	90	99	53	77	80
77	70	89	98	52	76	79
76	70	83	97	51	75	77
75	69	87	95	51	74	76
74	68	86	94	50	73	75
73	67	84	93	49	72	74
72	66	83	92	49	70	73
71	65	82	91	48	69	72
70	64	81	89	47	68	71
69	63	80	88	47	67	70
68	62	78	87	46	66	69
67	62	77	86	46	65	68
66	61	76	85	45	64	67
65	60	75	83	44	63	66
64	59	73	82	44	62	65
63	58	72	81	43	61	64
62	57	71	80	42	60	63
61	56	70	79	42	59	62
60	55	69	77	41	58	61
59	54	67	76	40	57	59
58	54	66	75	40	56	58
57	53	65	74	39	54	57
56	52	64	73	38	53	56
55	51	63	71	38	52	55
54	50	61	70	37	51	54
53	49	60	69	36	50	53
52	48	59	68	36	49	52
51	47	58	67	35	48	51
50	47	56	65	34	47	50
49	46	55	64	34	46	49
48	45	54	63	33	45	48
47	44	53	62	32	44	47
46	43	52	61	32	43	46
45	42	50	59	31	42	45

TABLE 142. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, LINEAR METHOD

CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
44	41	49	58	30	41	44
43	40	48	57	30	40	43
42	39	47	56	29	38	41
41	39	46	55	28	37	40
40	38	44	53	28	36	39
39	37	43	52	27	35	38
38	36	42	51	26	34	37
37	35	41	50	26	33	36
36	34	39	49	25	32	35
35	33	38	47	24	31	34
34	32	37	46	24	30	33
33	32	36	45	23	29	32
32	31	35	44	23	28	31
31	30	33	43	22	27	30
30	29	32	41	21	26	29
29	28	31	40	21	25	28
28	27	30	39	20	24	27
27	26	28	38	19	22	26
26	25	27	37	19	21	25
25	24	26	35	18	20	23
24	24	25	34	17	19	22
23	23	24	33	17	18	21
22	22	22	32	16	17	20
21	21	21	31	15	16	19
20	20	20	29	15	15	18
19	19	19	28	14	14	17
18	18	18	27	13	13	16
17	17	16	26	13	12	15
16	17	15	25	12	11	14
15	16	14	23	11	10	13
14	15	13	22	11	9	12
13	14	11	21	10	7	11
12	13	10	20	9	6	10
11	12	9	19	9	5	9
10	11	8	17	8	4	8
9	10	7	16	7	3	7
8	9	5	15	7	2	5
7	9	4	14	6	1	4
6	8	3	13	5	0	3
5	7	2	11	5	- 1	2
4	6	1	10	4	- 2	1

TABLE 142. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, LINEAR METHOD

CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
3	5	- 1	9	3	- 3	0
2	4	- 2	8	3	- 4	- 1
1	3	- 3	7	2	- 5	- 2
0	2	- 4	6	1	- 6	- 3

TABLE 143. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, LINEAR METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
106	83	91	114	61	91	93
105	82	90	113	61	90	92
104	81	89	112	60	89	91
103	80	88	111	60	88	91
102	80	88	110	59	87	90
101	79	87	109	58	86	89
100	78	86	108	58	85	88
99	78	85	108	57	84	87
98	77	84	107	57	84	86
97	76	83	106	56	83	85
96	75	83	105	56	82	84
95	75	82	104	55	81	84
94	74	81	103	55	80	83
93	73	80	102	54	79	82
92	72	79	101	54	78	81
91	72	79	100	53	77	80
90	71	78	99	53	77	79
89	70	77	98	52	76	78
88	70	76	97	51	75	77
87	69	75	96	51	74	77
86	68	74	95	50	73	76
85	67	74	94	50	72	75
84	67	73	93	49	71	74
83	66	72	92	49	70	73
82	65	71	91	48	69	72
81	64	70	90	48	69	71
80	64	69	89	47	68	71
79	63	69	88	47	67	70
78	62	68	87	46	66	69
77	62	67	86	45	65	68
76	61	66	85	[illegible]5	64	67
75	60	65	84	[illegible]4	63	66
74	59	65	83	44	62	65
73	59	64	82	43	62	64
72	58	63	81	43	61	64
71	57	62	80	42	60	63
70	56	61	79	42	59	62
69	56	60	78	41	58	61
68	55	60	77	41	57	60
67	54	59	76	40	56	59
66	54	58	75	40	55	58

TABLE 143. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, LINEAR METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
65	53	57	74	39	55	57
64	52	56	73	38	54	57
63	51	55	72	38	53	56
62	51	55	71	37	52	55
61	50	54	70	37	51	54
60	49	53	69	36	50	53
59	48	52	68	36	49	52
58	48	51	67	35	48	51
57	47	51	66	35	48	50
56	46	50	65	34	47	50
55	46	49	64	34	46	49
54	45	48	63	33	45	48
53	44	47	62	33	44	47
52	43	46	61	32	43	46
51	43	46	60	31	42	45
50	42	45	59	31	41	44
49	41	44	58	30	40	43
48	40	43	57	30	40	43
47	40	42	56	29	39	42
46	39	41	55	29	38	41
45	38	41	54	28	37	40
44	38	40	53	28	36	39
43	37	39	52	27	35	38
42	36	38	51	27	34	37
41	35	37	50	26	33	37
40	35	37	49	25	33	36
39	34	36	48	25	32	35
38	33	35	47	24	31	34
37	32	34	46	24	30	33
36	32	33	45	23	29	32
35	31	32	44	23	28	31
34	30	32	43	22	27	30
33	30	31	42	22	26	30
32	29	30	41	21	26	29
31	28	29	40	21	25	28
30	27	28	39	20	24	27
29	27	28	38	20	23	26
28	26	27	37	19	22	25
27	25	26	36	18	21	24
26	24	25	35	18	20	23
25	24	24	34	17	19	23

TABLE 143. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, LINEAR METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
24	23	23	33	17	19	22
23	22	23	33	16	18	21
22	22	22	32	16	17	20
21	21	21	31	15	16	19
20	20	20	30	15	15	18
19	19	19	29	14	14	17
18	19	18	28	14	13	16
17	18	18	27	13	12	16
16	17	17	26	12	12	15
15	16	16	25	12	11	14
14	15	15	24	11	10	13
13	15	14	23	11	9	12
12	14	14	22	10	8	11
11	14	13	21	10	7	10
10	13	12	20	9	6	9
9	[illegible]	11	19	9	5	9
8	11	10	18	8	4	8
7	11	9	17	8	4	7
6	10	9	16	7	3	6
5	9	8	15	7	2	5
4	8	7	14	6	1	4
3	8	6	13	5	0	3
2	7	5	12	5	- 1	3
1	6	4	11	4	- 2	2
0	6	4	10	4	- 3	1

TABLE 144. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, LINEAR METHOD

MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
95	68	75	86	51	73	76
94	68	74	85	50	72	75
93	67	73	84	49	72	74
92	66	72	83	49	71	73
91	65	71	82	48	70	73
90	65	71	81	48	69	72
89	64	70	80	47	68	71
88	63	69	79	47	67	70
87	62	68	78	46	66	69
86	62	67	77	46	65	68
85	61	66	76	45	64	67
84	60	66	75	45	64	66
83	60	65	74	44	63	65
82	59	64	73	43	62	65
81	58	63	72	43	61	64
80	57	62	71	42	60	63
79	57	61	70	42	59	62
78	56	61	69	41	58	61
77	55	60	68	41	57	60
76	54	59	67	40	56	59
75	54	58	66	40	56	58
74	53	57	65	39	55	58
73	52	56	64	39	54	57
72	51	56	63	38	53	56
71	51	55	62	37	52	55
70	50	54	61	37	51	54
69	49	53	60	36	50	53
68	48	52	59	36	49	52
67	48	51	58	35	48	51
66	47	51	57	35	48	50
65	46	50	56	34	47	50
64	46	49	55	34	46	49
63	45	48	54	33	45	48
62	44	47	53	32	44	47
61	43	46	52	32	43	46
60	43	46	51	31	42	45
59	42	45	50	31	41	44
58	41	44	49	30	40	43
57	40	43	48	30	40	43
56	40	42	47	29	39	42
55	39	41	46	29	38	41

TABLE 144. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, LINEAR METHOD

MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM C TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
54	38	41	45	28	37	40
53	37	40	44	28	36	39
52	37	39	43	27	35	38
51	36	38	42	26	34	37
50	35	37	41	26	33	36
49	34	36	40	25	32	35
48	34	36	[illegible]	25	31	35
47	33	35	35	24	31	34
46	32	34	37	24	30	33
45	32	33	36	23	29	32
44	31	32	35	23	28	31
43	30	31	34	22	27	30
42	29	31	33	22	26	29
41	29	30	32	21	25	28
40	28	29	31	20	24	27
39	27	28	30	20	23	27
38	26	27	29	19	23	26
37	26	26	28	19	22	25
36	25	26	27	18	21	24
35	24	25	26	18	20	23
34	23	24	25	17	19	22
33	23	23	24	17	18	21
32	22	22	23	16	17	20
31	21	21	22	15	16	20
30	20	21	21	15	15	19
29	20	20	20	14	15	18
28	19	19	19	14	14	17
27	18	18	18	13	13	16
26	18	17	17	13	12	15
25	17	16	15	12	11	14
24	16	16	14	12	10	13
23	15	15	13	11	9	12
22	15	14	12	11	8	12
21	14	13	11	10	7	11
20	13	12	10	9	7	10
19	12	11	9	9	6	9
18	12	11	8	8	5	8
17	11	10	7	8	4	7
16	10	9	6	7	3	6
15	9	8	5	7	2	5
14	9	7	4	6	1	5

TABLE 144. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, LINEAR METHOD

MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
13	8	6	3	6	0	4
12	7	6	2	5	- 1	3
11	6	5	1	5	- 1	2
10	6	4	0	4	- 2	1
9	5	3	- 1	3	- 3	0
8	4	2	- 2	3	- 4	- 1
7	4	1	- 3	2	- 5	- 2
6	3	1	- 4	2	- 6	- 3
5	2	0	- 5	1	- 7	- 3
4	1	- 1	- 6	1	- 8	- 4
3	1	- 2	- 7	0	- 9	- 5
2	0	- 3	- 8	0	- 9	- 6
1	- 1	- 4	- 9	- 1	- 10	- 7
0	- 2	- 4	- 10	- 2	- 11	- 8

TABLE 145. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, LINEAR METHOD

STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
60	81	89	104	112	89	91
59	80	88	102	111	87	90
58	78	86	100	109	85	88
57	77	85	98	107	84	87
56	76	83	97	105	82	85
55	74	82	95	103	81	83
54	73	80	93	101	79	82
53	72	78	91	100	77	80
52	70	77	89	98	76	78
51	69	75	87	96	74	77
50	68	74	85	94	72	75
49	66	72	84	92	71	74
48	65	71	82	90	69	72
47	64	69	80	89	68	70
46	62	68	78	87	66	69
45	61	66	76	85	64	67
44	60	65	74	83	63	66
43	58	63	73	81	61	64
42	57	62	71	80	59	62
41	56	60	69	78	58	61
40	54	59	67	76	56	59
39	53	57	65	74	55	58
38	52	56	63	72	53	56
37	50	54	61	70	51	54
36	49	53	60	69	50	53
35	47	51	58	67	48	51
34	46	50	56	65	47	49
33	45	48	54	63	45	48
32	43	47	52	61	[illegible]	46
31	42	45	50	59	42	45
30	41	44	49	58	40	43
29	39	42	47	56	38	41
28	38	40	45	54	37	40
27	37	39	43	52	35	38
26	35	37	41	50	34	37
25	34	36	39	49	32	35
24	33	34	37	47	30	33
23	31	33	36	45	29	32
22	30	31	34	43	27	30
21	29	30	32	41	25	29
20	27	28	30	39	24	27

TABLE 145. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, LINEAR METHOD

STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
19	26	27	28	38	22	25
18	25	25	26	36	21	24
17	23	24	24	34	19	22
16	22	22	23	32	17	20
15	21	21	21	30	16	19
14	19	19	19	28	14	17
13	18	18	17	27	12	16
12	17	16	15	25	11	14
11	15	15	13	23	9	12
10	14	13	12	21	8	11
9	13	12	10	19	6	9
8	11	10	8	18	4	8
7	10	9	6	16	3	6
6	9	7	4	14	1	4
5	7	6	2	12	-1	3
4	6	4	0	10	-2	1
3	4	2	-1	8	-4	0
2	3	1	-3	7	-5	-2
1	2	-1	-5	5	-7	-4
0	0	-2	-7	3	-9	-5

TABLE 146. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, LINEAR METHOD

SRA (71 ED.) BLUE FORM E TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
90	82	90	105	114	61	93
89	81	89	104	113	60	92
88	81	89	103	112	60	91
87	80	88	102	110	59	90
86	79	87	101	109	58	89
85	78	86	100	108	58	88
84	77	85	99	107	57	87
83	76	84	97	106	57	86
82	76	83	96	105	56	85
81	75	82	95	104	55	84
80	74	81	94	103	55	83
79	73	80	93	101	54	82
78	72	79	92	100	53	81
77	71	78	91	99	53	80
76	71	77	90	98	52	79
75	70	76	88	97	52	78
74	69	75	87	96	51	77
73	68	74	86	95	50	76
72	67	74	85	94	50	75
71	66	73	84	92	49	74
70	66	72	83	91	49	73
69	65	71	82	90	48	72
68	64	70	80	89	47	71
67	63	69	79	88	47	70
66	62	68	78	87	46	69
65	61	67	77	86	45	68
64	61	66	76	85	45	67
63	60	65	75	84	44	66
62	59	64	74	82	44	65
61	58	63	72	81	43	64
60	57	62	71	80	42	63
59	57	61	70	79	42	62
58	56	60	69	78	41	61
57	55	59	68	77	41	60
56	54	59	67	76	40	59
55	53	58	66	75	39	58
54	52	57	64	73	39	57
53	52	56	63	72	38	56
52	51	55	62	71	37	55
51	50	54	61	70	37	54
50	49	53	60	69	36	53

TABLE 146. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, LINEAR METHOD

SRA (71 ED.) BLUE FORM E TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
49	48	52	59	68	36	52
48	47	51	58	67	35	51
47	47	50	57	66	34	50
46	46	49	55	64	34	49
45	45	48	54	63	33	48
44	44	47	53	62	33	47
43	43	46	52	61	32	46
42	42	45	51	60	31	45
41	42	44	50	59	31	44
40	41	44	49	58	30	43
39	40	43	47	57	29	42
38	39	42	46	55	29	41
37	38	41	45	54	28	40
36	37	40	44	53	28	39
35	37	39	43	52	27	38
34	36	38	42	51	26	37
33	35	37	41	50	26	36
32	34	36	39	49	25	35
31	33	35	38	48	25	34
30	33	34	37	46	24	33
29	32	33	36	45	23	32
28	31	32	35	44	23	31
27	30	31	34	43	22	30
26	29	30	33	42	21	29
25	28	29	31	41	21	28
24	28	29	30	40	20	27
23	27	28	29	39	20	26
22	26	27	28	37	19	25
21	25	26	27	36	18	24
20	24	25	26	35	18	23
19	23	24	25	34	17	22
18	23	23	23	33	17	21
17	22	22	22	32	16	20
16	21	21	21	31	15	19
15	20	20	20	30	15	18
14	19	19	19	28	14	17
13	18	18	18	27	13	16
12	18	17	17	26	13	15
11	17	16	16	25	12	14
10	16	15	14	24	12	13
9	15	15	13	23	11	12

TABLE 146. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, LINEAR METHOD

SRA (71 ED.) BLUE FORM E TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM C TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
8	14	14	12	22	10	11
7	13	13	11	21	10	10
6	13	12	10	19	9	9
5	12	11	9	18	9	8
4	11	10	8	17	8	7
3	10	9	6	16	7	6
2	9	8	5	15	7	5
1	9	7	4	14	6	4
0	8	6	3	13	5	3

TABLE 147. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, LINEAR METHOD

SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
98	87	95	112	120	64	95
97	86	95	110	119	64	94
96	85	94	109	118	63	93
95	84	93	108	117	62	92
94	83	92	107	115	62	91
93	83	91	106	114	61	90
92	82	90	105	113	60	89
91	81	89	104	112	60	88
90	80	88	102	111	59	87
89	79	87	101	110	59	86
88	78	86	100	109	58	85
87	78	85	99	107	57	84
86	77	84	98	106	57	83
85	76	83	97	105	56	82
84	75	82	96	104	56	81
83	74	81	94	103	55	80
82	73	80	93	102	54	79
81	72	79	92	101	54	78
80	72	78	91	100	53	77
79	71	78	90	98	52	76
78	70	77	89	97	52	75
77	69	76	88	96	51	74
76	68	75	86	95	51	73
75	67	74	85	94	50	72
74	67	73	84	93	49	71
73	66	72	83	92	49	70
72	65	71	82	90	48	69
71	64	70	81	89	47	68
70	63	69	80	88	47	67
69	62	68	78	87	46	66
68	62	67	77	86	46	65
67	61	66	76	85	45	64
66	60	65	75	84	44	63
65	59	64	74	83	44	62
64	58	63	73	81	43	61
63	57	62	71	80	42	60
62	57	61	70	79	42	59
61	56	61	69	78	41	58
60	55	60	68	77	41	57
59	54	59	67	76	40	56
58	53	58	66	75	39	55

TABLE 147. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, LINEAR METHOD

SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
57	52	57	65	74	39	54
56	52	56	63	72	38	53
55	51	55	62	71	38	52
54	50	54	61	70	37	51
53	49	53	60	69	36	50
52	48	52	59	68	36	49
51	47	51	58	67	35	48
50	47	50	57	66	34	47
49	46	49	55	64	34	46
48	45	48	54	63	33	45
47	44	47	53	62	33	44
46	43	46	52	61	32	43
45	42	45	51	60	31	42
44	42	44	50	59	31	41
43	41	44	49	58	30	40
42	40	43	47	57	29	39
41	39	42	46	55	29	38
40	38	41	45	54	28	37
39	37	40	44	53	28	36
38	37	39	43	52	27	35
37	36	38	42	51	26	34
36	35	37	41	50	26	33
35	34	36	39	49	25	32
34	33	35	38	47	24	31
33	32	34	37	46	24	30
32	32	33	36	45	23	29
31	31	32	35	44	23	28
30	30	31	34	43	22	27
29	29	30	32	42	21	26
28	28	29	31	41	21	25
27	27	28	30	40	20	24
26	27	28	29	38	20	23
25	26	27	28	37	19	22
24	25	26	27	36	18	21
23	24	25	26	35	18	20
22	23	24	24	34	17	19
21	22	23	23	33	16	18
20	22	22	22	32	16	17
19	21	21	21	31	15	16
18	20	20	20	29	15	15
17	19	19	19	28	14	14

TABLE 147. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, LINEAR METHOD

SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
16	18	18	18	27	13	13
15	17	17	16	26	13	12
14	17	16	15	25	12	11
13	16	15	14	24	11	10
12	15	14	13	23	11	9
11	14	13	12	21	10	8
10	13	12	11	20	10	7
9	12	11	10	19	9	6
8	12	11	8	18	8	5
7	11	10	7	17	8	4
6	10	9	6	16	7	3
5	9	8	5	15	6	2
4	8	7	4	14	6	1
3	7	6	3	12	5	0
2	7	5	2	11	5	- 1
1	6	4	0	10	4	- 2
0	5	3	- 1	9	3	- 3

TABLE 148. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, EQUIPERCENTILE METHOD

CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
82	85	104	95	60	90	98
81	84	102	95	59	89	96
80	83	101	94	58	88	94
79	82	99	94	58	86	92
78	81	98	93	57	85	90
77	80	96	92	56	84	89
76	79	95	92	55	83	87
75	78	94	91	55	82	86
74	77	93	91	54	81	85
73	77	92	90	53	80	83
72	76	91	90	53	79	82
71	75	90	89	52	78	81
70	74	89	89	52	77	79
69	73	87	88	51	76	78
68	73	86	88	50	75	77
67	72	85	87	50	74	76
66	71	84	87	49	73	74
65	70	83	86	48	72	73
64	70	82	86	48	70	72
63	69	80	85	47	69	71
62	68	79	85	46	68	69
61	67	78	84	46	67	68
60	66	76	83	45	65	67
59	65	75	83	44	64	65
58	64	74	82	43	62	64
57	63	72	81	42	61	63
56	62	71	80	42	59	61
55	61	70	79	41	58	60
54	60	68	78	40	56	59
53	59	67	77	39	55	57
52	58	65	76	38	53	56
51	56	63	75	38	52	55
50	55	62	74	37	50	54
49	54	60	73	36	48	52
48	53	59	72	35	47	51
47	52	57	70	35	46	50
46	51	55	69	34	44	48
45	49	54	68	33	43	47
44	48	52	66	32	41	46
43	47	50	65	31	40	45
42	45	49	63	31	39	43

TABLE 148. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, EQUIPERCENTILE METHOD

CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
41	44	47	62	30	37	42
40	43	45	60	29	36	41
39	41	44	58	29	35	40
38	40	42	57	28	34	38
37	39	41	55	27	33	37
36	38	39	54	26	32	36
35	36	38	52	26	31	35
34	35	37	50	25	30	34
33	34	36	48	24	29	33
32	33	34	46	24	28	32
31	31	33	44	23	27	31
30	30	32	42	22	27	30
29	29	31	40	21	26	29
28	28	30	38	21	25	28
27	27	29	37	20	24	27
26	26	29	35	19	24	26
25	25	28	33	18	23	25
24	24	27	31	18	22	24
23	23	26	30	17	21	24
22	22	25	28	16	21	23
21	21	24	27	16	20	22
20	20	24	25	15	19	21
19	19	23	24	14	18	20
18	18	22	22	13	17	19
17	18	21	21	12	16	17
16	17	20	20	12	15	15
15	15	18	18	11	14	14
14	14	17	17	10	13	13
13	13	15	15	9	11	11
12	12	13	14	8	10	9
11	11	12	13	7	9	8
10	9	11	12	7	8	8
9	8	9	11	6	7	7
8	7	8	10	5	6	6
7	6	7	9	4	5	5
6	5	5	8	3	3	4
5	4	4	7	3	2	3
4	3	3	6	2	1	2
3	2	1	5	1	0	1
2	1	0	4	0	0	0
1	0	0	3	0	0	0

TABLE 148. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, EQUIPERCENTILE METHOD

CAT (70 ED.) LEVEL [illegible] FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
0	0	0	2	0	0	0

TABLE 149. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, EQUIPERCENTILE METHOD

CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
85	82	104	95	60	90	98
84	81	102	95	59	89	95
83	80	101	94	59	88	94
82	79	100	94	58	87	93
81	78	98	93	57	85	91
80	77	97	93	56	85	89
79	76	95	92	55	83	88
78	75	94	91	55	82	86
77	73	92	91	54	81	84
76	72	91	90	53	80	82
75	71	90	89	52	78	81
74	70	88	89	51	77	79
73	69	87	88	51	76	78
72	67	85	87	50	74	76
71	66	84	87	49	73	74
70	65	82	86	48	71	73
69	63	81	85	47	70	71
68	62	79	85	47	68	70
67	61	78	84	46	67	68
66	60	77	83	45	65	67
65	59	75	83	44	64	65
64	58	74	82	43	62	64
63	57	72	81	42	61	63
62	56	71	80	42	59	61
61	55	70	79	41	58	60
60	54	68	78	40	56	59
59	53	67	77	39	55	58
58	52	66	77	39	54	57
57	52	64	76	38	52	56
56	51	63	75	37	51	54
55	50	61	74	37	50	53
54	49	60	73	36	48	52
53	48	58	71	35	47	51
52	47	57	70	35	46	50
51	46	56	69	34	45	49
50	46	55	68	33	44	48
49	45	53	67	33	42	47
48	44	52	66	32	41	46
47	43	51	65	32	40	45
46	42	49	64	31	39	44
45	42	48	63	31	38	43

TABLE 149. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, EQUIPERCENTILE METHOD

CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
44	41	47	61	30	37	42
43	40	46	60	29	37	41
42	39	44	59	29	36	40
41	39	43	58	28	35	39
40	38	42	57	28	34	38
39	37	41	55	27	33	37
38	36	40	54	27	32	36
37	36	39	53	26	32	36
36	35	38	51	26	31	35
35	34	37	50	25	30	34
34	33	36	49	24	29	33
33	32	35	47	24	28	32
32	32	34	45	23	28	31
31	31	33	44	23	27	30
30	30	32	42	22	26	30
29	29	31	40	21	26	29
28	28	30	39	21	25	28
27	27	30	37	20	24	27
26	26	29	35	19	24	26
25	25	28	33	19	23	25
24	24	27	32	18	22	24
23	23	26	30	17	21	24
22	22	25	28	16	21	23
21	21	24	26	16	20	21
20	20	23	25	15	19	20
19	19	22	23	14	18	19
18	18	21	22	13	17	18
17	17	20	20	12	16	17
16	16	19	19	11	15	15
15	15	18	18	10	14	14
14	14	17	17	10	13	12
13	13	15	16	9	12	11
12	12	14	15	8	11	10
11	12	13	14	8	10	9
10	11	11	13	7	9	8
9	10	10	12	6	8	7
8	9	9	11	5	6	6
7	8	8	10	5	5	5
6	7	6	9	4	4	5
5	6	5	8	3	3	4
4	5	4	7	2	2	3

TABLE 149. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, EQUIPERCENTILE METHOD

CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
3	4	2	6	2	1	2
2	3	1	5	1	0	1
1	2	0	4	0	0	0
0	1	0	3	0	0	0

TABLE 150. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, EQUIPERCENTILE METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
106	82	85	95	60	90	98
105	82	85	95	60	90	98
104	82	85	95	60	90	98
103	82	84	95	60	89	97
102	81	84	95	59	89	95
101	80	83	94	59	88	94
100	80	82	94	58	87	93
99	79	82	93	57	86	92
98	78	81	93	57	85	91
97	78	80	93	56	85	89
96	77	79	92	56	84	88
95	76	79	92	55	83	87
94	75	78	91	55	82	86
93	74	78	91	54	81	85
92	73	77	90	54	81	83
91	72	76	90	53	80	82
90	71	75	90	52	79	81
89	70	75	89	52	78	80
88	70	74	89	51	77	79
87	69	73	88	51	76	78
86	68	72	88	50	75	77
85	67	72	87	50	74	76
84	66	71	87	49	73	75
83	65	71	86	49	72	73
82	64	70	86	48	71	72
81	64	69	86	48	70	71
80	63	69	85	47	69	70
79	62	68	85	46	68	69
78	61	67	84	46	67	68
77	61	66	84	45	66	67
76	60	66	83	45	65	66
75	59	65	82	44	64	65
74	58	64	82	43	63	64
73	57	64	81	43	62	63
72	57	63	81	42	60	62
71	56	62	80	42	59	61
70	55	61	80	41	58	60
69	55	61	79	41	57	60
68	54	60	78	40	56	59
67	53	59	77	39	55	58
66	53	58	77	39	54	57

TABLE 150. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, EQUIPERCENTILE METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
65	52	58	76	38	53	56
64	51	57	75	38	52	55
63	51	56	75	37	51	55
62	50	55	74	37	50	54
61	50	55	73	36	49	53
60	49	54	73	36	48	52
59	48	53	72	36	47	51
58	48	53	71	35	46	50
57	47	52	70	35	46	50
56	46	51	70	34	45	49
55	46	50	69	34	44	48
54	45	50	68	33	43	47
53	45	49	67	33	42	47
52	44	48	66	32	41	46
51	43	47	65	32	41	45
50	43	47	64	31	40	44
49	42	46	64	31	39	44
48	42	45	63	30	38	43
47	41	44	62	30	37	42
46	41	43	61	30	37	41
45	40	43	60	29	36	41
44	39	42	59	29	36	40
43	39	41	58	28	35	39
42	38	40	57	28	34	38
41	37	39	56	27	33	38
40	37	38	55	27	33	37
39	36	37	53	26	32	36
38	35	36	52	26	31	35
37	34	35	51	25	30	34
36	33	34	49	25	29	33
35	33	33	47	24	29	32
34	32	32	46	23	28	31
33	31	31	44	23	27	31
32	30	30	42	22	26	30
31	29	29	40	21	26	29
30	28	28	38	20	25	28
29	27	26	36	20	24	27
28	25	25	34	19	23	26
27	24	24	32	18	22	25
26	23	23	30	17	21	24
25	22	22	28	16	21	22

TABLE 150. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, EQUIPERCENTILE METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
24	21	21	26	15	20	21
23	19	20	24	15	19	20
22	18	19	23	14	18	19
21	17	18	22	13	17	18
20	17	17	20	12	16	17
19	16	16	19	11	15	15
18	15	15	[illegible]	10	14	14
17	14	14	17	10	13	13
16	14	14	16	9	12	12
15	13	13	15	9	12	11
14	13	12	15	9	11	10
13	12	11	14	8	10	9
12	11	11	13	7	9	8
11	10	10	12	7	8	8
10	10	9	12	6	7	7
9	9	8	11	6	7	6
8	8	7	10	5	6	6
7	7	7	9	4	5	5
6	7	6	9	4	4	4
5	6	5	8	3	3	4
4	5	4	7	3	2	3
3	4	4	6	2	2	2
2	4	3	6	1	1	2
1	3	2	5	1	0	1
0	2	1	4	0	0	0

TABLE 151. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, EQUIPERCENTILE METHOD

MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
95	82	85	103	60	90	97
94	80	83	101	58	87	94
93	78	81	98	57	85	90
92	76	79	96	56	84	88
91	74	78	93	54	82	85
90	72	76	91	53	80	82
89	70	74	89	52	77	80
88	68	73	87	51	75	77
87	67	71	85	49	73	75
86	65	70	82	48	71	73
85	63	69	80	47	69	70
84	61	67	78	46	67	68
83	60	66	76	45	65	66
82	58	64	74	43	63	65
81	57	63	73	42	61	63
80	56	62	71	42	59	61
79	55	61	69	41	57	60
78	54	60	68	40	56	59
77	53	59	66	39	54	57
76	52	58	65	38	53	56
75	51	56	63	38	52	55
74	50	55	62	37	50	54
73	49	55	61	36	49	53
72	48	54	59	36	48	51
71	48	53	58	35	46	50
70	47	52	57	34	45	49
69	46	51	55	34	44	48
68	45	50	54	33	43	47
67	45	49	53	33	42	47
66	44	48	52	32	41	46
65	43	47	51	32	40	45
64	43	46	50	31	39	44
63	42	45	49	31	39	43
62	41	45	47	30	38	42
61	41	44	46	30	37	42
60	40	43	45	29	36	41
59	39	42	44	29	36	40
58	39	41	43	28	35	39
57	38	40	42	28	34	38
56	38	40	41	28	34	38
55	37	39	40	27	33	37

TABLE 151. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, EQUIPERCENTILE METHOD

MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
54	36	38	40	27	32	36
53	36	37	39	26	32	36
52	35	37	38	26	31	35
51	35	36	37	25	31	34
50	34	35	37	25	30	34
49	33	34	36	25	29	33
48	33	34	36	24	29	33
47	33	33	35	24	29	32
46	32	33	34	24	28	32
45	32	32	34	23	28	31
44	31	31	33	23	27	31
43	31	31	33	22	27	30
42	30	30	32	22	26	30
41	29	29	32	22	26	29
40	29	29	31	21	26	29
39	28	28	31	21	25	28
38	28	28	30	20	25	28
37	27	27	30	20	24	27
36	27	27	29	20	24	27
35	26	26	29	19	24	26
34	26	25	28	19	23	26
33	25	25	28	18	23	25
32	24	24	27	18	22	25
31	24	24	27	18	22	24
30	23	23	26	17	22	24
29	23	23	26	17	21	23
28	22	22	25	16	21	22
27	21	21	25	16	20	22
26	21	21	24	15	20	21
25	20	20	23	15	19	21
24	19	20	23	14	18	20
23	19	19	22	14	18	19
22	18	18	21	13	17	18
21	17	18	21	12	16	17
20	16	17	20	12	15	17
19	16	16	19	11	15	15
18	15	15	18	10	14	14
17	14	14	17	10	13	13
16	14	13	16	9	12	12
15	13	13	15	9	11	10
14	12	12	13	8	10	9

TABLE 151. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, EQUIPERCENTILE METHOD

MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
13	11	10	12	7	9	8
12	10	9	11	6	8	7
11	9	8	9	6	7	7
10	8	7	8	5	6	6
9	7	6	7	4	5	5
8	6	5	5	3	3	4
7	5	4	4	3	2	3
6	4	3	3	2	1	2
5	3	2	1	1	0	1
4	2	1	0	0	0	0
3	1	0	0	0	0	0
2	0	0	0	0	0	0
1	0	0	0	0	0	0
0	0	0	0	0	0	0

TABLE 152. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, EQUIPERCENTILE METHOD

STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
60	82	85	104	95	90	97
59	81	84	102	95	88	95
58	80	82	100	94	87	93
57	78	81	98	93	86	91
56	77	80	97	92	84	89
55	76	79	95	92	83	87
54	74	77	93	91	81	85
53	72	76	91	90	80	82
52	71	75	89	89	78	80
51	69	73	87	88	76	78
50	67	72	86	88	74	76
49	66	71	84	87	73	74
48	64	70	82	86	71	72
47	63	69	80	85	69	71
46	62	67	79	84	67	69
45	60	66	77	84	66	67
44	59	65	75	83	64	66
43	58	64	74	82	62	64
42	57	63	72	81	60	62
41	55	61	70	79	58	60
40	54	60	68	78	56	59
39	53	59	66	77	54	57
38	52	57	64	76	52	56
37	50	56	62	74	50	54
36	49	54	60	73	48	52
35	48	53	58	71	46	50
34	46	51	56	69	45	49
33	45	49	54	68	43	47
32	44	48	52	66	41	46
31	42	46	49	64	39	44
30	41	44	47	62	37	42
29	40	42	45	59	36	40
28	38	40	42	57	34	38
27	37	39	40	55	33	37
26	35	37	38	53	31	35
25	34	35	37	50	30	34
24	33	33	35	48	29	32
23	31	32	34	45	28	31
22	30	30	32	42	27	30
21	29	29	31	40	26	29
20	27	27	30	37	25	27

TABLE 152. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, EQUIPERCENTILE METHOD

STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
19	26	26	29	35	24	26
18	24	24	27	32	22	25
17	23	23	26	30	21	24
16	22	22	25	28	20	22
15	20	20	24	25	19	21
14	19	19	23	24	18	20
13	18	18	21	22	17	18
12	17	17	20	20	16	17
11	15	16	19	19	14	15
10	14	15	17	17	13	13
9	13	13	15	16	12	11
8	12	12	13	14	10	9
7	11	10	12	13	9	8
6	9	9	10	12	7	7
5	8	8	8	10	6	6
4	7	6	6	9	5	5
3	6	5	5	8	3	3
2	4	4	3	6	2	2
1	3	2	1	5	0	1
0	2	1	0	4	0	0

TABLE 153. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, EQUIPERCENTILE METHOD

SRA (71 ED.) BLUE FORM E TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP II (69 ED.) LEVEL 4 FORM A TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
90	82	85	104	95	60	96
89	81	84	103	95	59	96
88	80	83	101	94	59	95
87	80	82	100	94	58	93
86	79	81	99	93	57	92
85	78	81	98	93	57	90
84	77	80	96	92	56	88
83	76	79	95	92	[illegible]	87
82	75	78	94	91	54	86
81	74	77	93	91	54	84
80	73	76	92	90	53	83
79	72	76	91	90	53	81
78	71	75	89	89	52	80
77	70	74	88	89	52	79
76	69	73	87	88	51	78
75	68	73	86	88	50	77
74	67	72	85	87	50	76
73	66	71	84	87	49	75
72	65	71	83	86	49	74
71	65	70	82	86	48	73
70	64	69	81	86	48	71
69	63	69	80	85	47	70
68	62	68	79	85	46	69
67	61	67	78	84	46	68
66	61	66	77	84	45	67
65	60	66	76	83	45	67
64	59	65	75	83	44	66
63	58	65	74	82	44	65
62	58	64	74	82	43	64
61	57	63	73	81	42	63
60	56	63	72	81	42	62
59	56	62	71	80	41	61
58	55	61	70	79	41	60
57	55	61	69	79	40	59
56	54	60	68	78	40	59
55	53	59	67	77	39	58
54	53	58	66	77	39	57
53	52	58	65	76	38	56
52	51	57	64	75	38	55
51	51	56	63	75	37	55
50	50	55	62	74	37	54

TABLE 153. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, EQUIPERCENTILE METHOD

SRA (71 ED.) BLUE FORM E TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
49	49	55	61	73	36	53
48	49	54	60	72	36	52
47	48	53	59	72	35	51
46	47	52	58	71	35	50
45	47	51	56	70	34	49
44	46	51	55	69	34	48
43	45	50	54	68	33	47
42	44	49	53	67	33	46
41	44	48	52	66	32	46
40	43	47	50	65	31	45
39	42	46	49	64	31	44
38	42	45	48	62	30	43
37	41	44	46	61	30	42
36	40	42	45	60	29	40
35	39	41	43	58	29	39
34	38	40	42	57	28	38
33	37	39	41	55	27	37
32	36	38	39	54	26	36
31	35	36	38	52	26	35
30	34	35	37	50	25	34
29	33	34	36	48	24	33
28	32	32	34	46	23	32
27	31	31	33	44	23	30
26	29	29	32	41	22	29
25	28	28	30	39	21	28
24	27	26	29	36	20	27
23	25	25	28	34	19	25
22	24	24	27	31	18	24
21	23	23	26	29	17	23
20	21	21	25	27	16	22
19	20	20	23	25	15	21
18	19	19	22	23	14	19
17	18	18	21	22	13	18
16	17	17	20	21	12	17
15	16	17	20	20	12	16
14	15	16	18	18	11	15
13	14	15	17	17	10	13
12	14	13	16	16	9	12
11	13	12	14	15	9	10
10	12	11	13	14	8	9
9	11	10	12	13	7	8

TABLE 153. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, EQUIPERCENTILE METHOD

SRA (71 ED.) BLUE FORM E TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
8	10	10	11	12	7	8
7	9	9	10	11	6	7
6	8	8	8	10	5	6
5	7	7	7	9	4	5
4	7	6	6	9	4	4
3	6	5	5	8	3	3
2	5	4	4	7	2	3
1	4	3	2	6	2	2
0	3	2	1	5	1	1

TABLE 154. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, EQUIPERCENTILE METHOD

SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
98	82	85	104	95	60	90
97	82	85	103	95	60	90
96	81	84	103	95	59	89
95	81	84	102	94	59	88
94	80	83	101	94	58	88
93	80	82	100	94	58	87
92	79	82	[illegible]	94	58	86
91	78	81	98	93	57	86
90	78	81	98	93	57	85
89	77	80	97	93	56	84
88	77	79	96	92	56	84
87	76	79	95	92	55	83
86	75	78	94	91	55	82
85	74	78	93	91	54	82
84	74	77	92	91	54	81
83	73	77	92	90	53	80
82	72	76	91	90	53	79
81	71	75	90	90	52	79
80	71	75	89	89	52	78
79	70	74	88	89	51	77
78	69	73	87	88	51	76
77	68	73	86	88	50	75
76	67	72	85	87	50	74
75	67	71	85	87	49	73
74	66	71	84	87	49	72
73	65	70	83	86	48	72
72	64	70	82	86	48	71
71	63	69	81	85	47	70
70	63	68	80	35	47	69
69	62	68	79	84	46	68
68	61	67	78	84	46	67
67	60	66	77	83	45	66
66	60	66	76	83	44	65
65	59	65	75	82	44	63
64	58	64	74	82	43	62
63	57	63	73	81	43	61
62	57	63	72	81	42	60
61	56	62	71	80	41	59
60	55	61	70	79	41	58
59	54	60	68	78	40	57
58	54	59	67	78	40	55

TABLE 154. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, EQUIPERCENTILE METHOD

SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
57	53	58	66	77	39	54
56	52	58	65	76	38	53
55	51	57	64	75	38	52
54	50	56	62	74	37	50
53	50	55	61	73	37	49
52	49	54	60	73	36	48
51	48	53	59	72	35	47
50	47	52	58	71	35	46
49	47	51	56	70	34	45
48	46	50	55	69	34	44
47	45	49	54	68	33	43
46	44	48	52	66	32	42
45	43	47	51	65	32	40
44	43	46	50	64	31	39
43	42	45	48	63	31	38
42	41	44	47	62	30	37
41	40	43	46	60	30	37
40	39	42	44	59	29	36
39	39	41	43	58	28	35
38	38	40	42	56	28	34
37	37	39	40	55	27	33
36	36	38	39	54	27	32
35	35	36	38	52	26	31
34	34	35	37	50	25	30
33	33	34	36	49	24	29
32	32	33	35	47	24	28
31	31	32	34	45	23	28
30	30	31	33	43	22	27
29	29	29	31	41	21	26
28	28	28	30	39	21	25
27	27	27	30	37	20	24
26	26	26	29	35	19	24
25	25	25	28	33	18	23
24	24	24	27	31	17	22
23	23	23	26	29	17	21
22	21	22	25	27	16	20
21	20	21	24	26	15	19
20	19	20	23	24	14	19
19	18	19	22	23	14	18
18	18	18	21	22	13	17
17	17	17	20	21	12	16

TABLE 154. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

PROCEDURE 3, EQUIPERCENTILE METHOD

SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
16	16	17	20	20	12	15
15	15	16	19	19	11	14
14	15	15	18	18	10	14
13	14	15	17	17	10	13
12	14	14	16	16	10	12
11	13	13	15	16	9	12
10	13	12	14	15	9	11
9	12	11	13	14	8	10
8	11	10	11	13	7	9
7	10	9	10	12	6	7
6	8	8	9	11	5	6
5	7	7	7	9	4	5
4	6	6	6	8	4	4
3	5	4	4	7	3	3
2	4	3	3	6	2	1
1	3	2	1	5	1	0
0	2	1	0	4	0	0

TABLE 155. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
82	92	106	116	61	92	94
81	91	105	115	60	91	93
80	90	104	113	59	89	92
79	89	102	112	59	88	91
78	88	101	111	58	87	89
77	87	99	109	57	86	88
76	86	98	108	56	85	87
75	84	97	107	56	83	86
74	83	95	105	55	82	85
73	82	94	104	54	81	84
72	81	93	102	53	80	82
71	90	91	101	53	79	81
70	79	90	100	52	78	80
69	78	88	98	51	76	79
68	76	87	97	50	75	78
67	75	86	96	50	74	76
66	74	84	94	49	73	75
65	73	83	93	48	72	74
64	72	82	92	47	70	73
63	71	80	90	47	69	72
62	70	79	89	46	69	70
61	69	77	87	45	67	69
60	67	76	86	44	66	68
59	66	75	85	44	65	67
58	65	73	83	43	63	66
57	64	72	82	42	62	64
56	63	71	81	41	61	63
55	62	69	79	41	60	62
54	61	68	78	40	59	61
53	60	66	76	39	57	60
52	58	65	75	38	56	59
51	57	64	74	38	55	57
50	56	62	72	37	54	56
49	55	61	71	36	53	55
48	54	60	70	36	52	54
47	53	58	68	35	50	53
46	52	57	67	34	49	51
45	50	55	66	33	48	50
44	49	54	64	32	47	49
43	48	53	63	32	46	48
42	47	51	61	31	44	47

TABLE 155. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
41	46	50	60	30	43	45
40	45	48	59	29	42	44
39	44	47	57	29	41	43
38	43	46	56	28	40	42
37	41	44	55	27	39	41
36	40	43	53	26	37	39
35	39	42	52	26	36	38
34	38	40	50	25	35	37
33	37	39	49	24	34	36
32	36	37	48	24	33	35
31	35	36	46	23	31	33
30	34	35	45	22	30	32
29	32	33	44	21	29	31
28	31	32	42	21	28	30
27	30	31	41	20	27	29
26	29	29	40	19	26	28
25	28	28	38	18	24	26
24	27	26	37	18	23	25
23	26	25	35	17	22	24
22	24	24	34	16	21	23
21	23	22	33	15	20	22
20	22	21	31	15	18	20
19	21	20	30	14	17	19
18	20	18	29	13	16	18
17	19	17	27	12	15	17
16	18	15	26	12	14	16
15	17	14	25	11	13	14
14	15	13	23	10	11	13
13	14	11	22	9	10	12
12	13	10	20	9	9	11
11	12	8	19	8	8	10
10	11	7	18	7	7	9
9	10	6	16	6	5	7
8	9	4	15	6	4	6
7	7	3	14	5	3	5
6	6	2	12	4	2	4
5	5	0	11	3	1	3
4	4	- 1	10	3	0	1
3	3	- 3	8	2	- 2	0
2	2	- 4	7	1	- 3	- 1
1	1	- 5	5	0	- 4	- 2

TABLE 155. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
0	0	- 7	4	0	- 5	- 3

TABLE 156. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
85	76	98	107	56	84	87
84	75	96	106	55	83	86
83	74	95	105	55	82	85
82	73	94	104	54	81	83
81	72	93	103	53	80	82
80	71	91	101	53	79	81
79	70	90	100	52	78	80
78	69	89	99	51	77	79
77	69	88	98	51	76	78
76	68	87	97	50	75	77
75	67	85	95	50	74	76
74	66	84	94	49	73	75
73	65	83	93	48	72	74
72	64	82	92	48	71	73
71	63	80	90	47	70	72
70	62	79	89	46	69	71
69	62	78	88	46	67	70
68	61	77	87	45	66	69
67	60	76	86	44	65	68
66	59	74	84	44	64	67
65	58	73	83	43	63	66
64	57	72	82	42	62	64
63	56	71	81	42	61	63
62	55	70	80	41	60	62
61	54	68	78	40	59	61
60	54	67	77	40	58	60
59	53	66	76	39	57	59
58	52	65	75	38	56	58
57	51	63	74	38	55	57
56	50	62	72	37	54	56
55	49	61	71	36	53	55
54	48	60	70	36	52	54
53	47	59	69	35	51	53
52	46	57	68	34	50	52
51	46	56	66	34	49	51
[illegible]	45	55	65	33	48	50
[illegible]	44	54	64	32	47	49
[illegible]	43	52	63	32	46	48
47	42	51	61	31	44	47
46	41	50	60	30	43	46
45	40	49	59	30	42	45

TABLE 156. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
44	39	48	58	29	41	43
43	39	46	57	28	40	42
42	38	45	55	28	39	41
41	37	44	54	27	38	40
40	36	43	53	26	37	39
39	35	41	52	26	36	38
38	34	40	51	25	35	37
37	33	39	49	24	34	36
36	32	38	48	24	33	35
35	31	37	47	23	32	34
34	31	35	46	22	31	33
33	30	34	45	22	30	32
32	29	33	43	21	29	31
31	28	32	42	20	28	30
30	27	30	41	20	27	29
29	26	29	40	19	26	28
28	25	28	39	18	25	27
27	24	27	37	18	24	26
26	24	26	36	17	23	25
25	23	24	35	16	21	23
24	22	23	34	16	20	22
23	21	22	32	15	19	21
22	20	21	31	14	18	20
21	19	20	30	14	17	19
20	18	18	29	13	16	18
19	17	17	28	12	15	17
18	16	16	26	12	14	16
17	16	15	25	11	13	15
16	15	13	24	10	12	14
15	14	12	23	10	11	13
14	13	11	22	9	10	12
13	12	10	20	9	9	11
12	11	9	19	8	8	10
11	10	7	18	7	7	9
10	9	6	17	7	6	8
9	8	5	16	6	5	7
8	8	4	14	5	4	6
7	7	2	13	5	3	5
6	6	1	12	4	2	3
5	5	0	11	3	1	2
4	4	- 1	9	3	- 1	1

TABLE 156. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
3	3	- 2	8	2	- 2	0
2	2	- 4	7	1	- 3	- 1
1	1	- 5	6	1	- 4	- 2
0	1	- 6	5	0	- 5	- 3

TABLE 157. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
106	82	92	116	61	91	94
105	81	91	115	60	91	93
104	80	90	114	60	90	92
103	80	90	113	59	89	91
102	79	89	112	59	88	91
101	78	88	111	58	87	90
100	78	87	110	57	86	89
99	77	86	109	57	85	88
98	76	86	108	56	85	87
97	75	85	107	56	84	86
96	75	84	106	55	83	65
95	74	83	105	55	82	85
94	73	82	104	54	81	84
93	72	81	103	54	80	83
92	72	81	102	53	79	82
91	71	80	101	53	79	81
90	70	79	100	52	78	80
89	70	78	99	52	77	79
88	69	77	98	51	76	78
87	68	76	97	50	75	78
86	67	76	96	50	74	77
85	67	75	95	49	73	76
84	66	74	94	49	73	75
83	65	73	93	48	72	74
82	64	72	92	48	71	73
81	64	72	91	47	70	72
80	63	71	90	47	69	72
79	62	70	89	46	68	71
78	62	69	88	46	67	70
77	61	68	87	45	67	69
76	60	67	86	44	66	68
75	59	67	85	44	65	67
74	59	66	84	43	64	66
73	58	65	83	43	63	65
72	57	64	82	42	62	65
71	56	63	81	42	61	64
70	56	63	80	41	61	63
69	55	62	79	41	60	62
68	54	61	78	40	59	61
67	54	60	77	40	58	60
66	53	59	76	39	57	59

TABLE 157. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
65	52	58	75	39	56	59
64	51	58	74	38	55	58
63	51	57	73	37	55	57
62	50	56	72	37	54	56
61	49	55	71	36	53	55
60	48	54	70	36	52	54
59	48	54	69	35	51	53
58	47	53	68	35	50	53
57	46	52	67	34	49	52
56	46	51	66	34	49	51
55	45	50	65	33	48	50
54	44	49	64	33	47	49
53	43	49	63	32	46	48
52	43	48	62	31	45	47
51	42	47	61	31	44	46
50	41	46	60	30	43	46
49	41	45	59	30	43	45
48	40	44	58	29	42	44
47	39	44	57	29	41	43
46	38	43	56	28	40	42
45	38	42	55	28	39	41
44	37	41	54	27	38	40
43	36	40	53	27	37	40
42	35	40	52	26	37	39
41	35	39	51	25	36	38
40	34	38	50	25	35	37
39	33	37	49	24	34	36
38	33	36	48	24	33	35
37	32	35	47	23	32	34
36	31	35	46	23	31	34
35	30	34	45	22	31	33
34	30	33	44	22	30	32
33	29	32	43	21	29	31
32	28	31	42	21	28	30
31	27	31	41	20	27	29
30	27	30	40	20	26	28
29	26	29	39	19	25	27
28	25	28	39	18	25	27
27	25	27	38	18	24	26
26	24	26	37	17	23	25
25	23	26	36	17	22	24

TABLE 157. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
24	22	25	35	16	21	23
23	22	24	34	16	20	22
22	21	23	33	15	19	21
21	20	22	32	15	19	21
20	19	21	31	14	18	20
19	19	21	30	14	17	19
18	18	20	29	13	16	18
17	17	19	28	12	15	17
16	17	18	27	12	14	16
15	16	17	26	11	13	15
14	15	17	25	11	13	15
13	14	16	24	10	12	14
12	14	15	23	10	11	13
11	13	14	22	9	10	12
10	12	13	21	9	9	11
9	11	12	20	8	8	10
8	11	12	19	8	7	9
7	10	11	18	7	7	8
6	9	10	17	6	6	8
5	9	9	16	6	5	7
4	8	8	15	5	4	6
3	7	8	14	5	3	5
2	6	7	13	4	2	4
1	6	6	12	4	1	3
0	5	5	11	3	1	2

TABLE 158. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
95	67	75	85	49	74	76
94	66	74	84	49	73	75
93	65	73	83	48	72	74
92	64	72	82	48	71	73
91	64	72	81	47	70	72
90	63	71	80	47	69	72
89	62	70	79	46	68	71
88	62	69	78	46	67	70
87	61	68	77	45	67	69
86	60	67	76	44	66	68
85	59	67	75	44	65	67
84	59	66	74	43	64	66
83	58	65	73	43	63	65
82	57	64	72	42	62	65
81	56	63	71	42	61	64
80	56	62	70	41	61	63
79	55	62	69	41	60	62
78	54	61	68	40	59	61
77	53	60	67	40	58	60
76	53	59	66	39	57	59
75	52	58	65	38	56	58
74	51	58	64	38	55	58
73	51	57	63	37	54	57
72	50	56	62	37	54	56
71	49	55	61	36	53	55
70	48	54	60	36	52	54
69	48	53	59	35	51	53
68	47	53	58	35	50	52
67	46	52	57	34	49	52
66	45	51	56	34	48	51
65	45	50	55	33	48	50
64	44	49	54	32	47	49
63	43	48	53	32	46	48
62	43	48	52	31	45	47
61	42	47	51	31	44	46
60	41	46	50	30	43	45
59	40	45	49	30	42	45
58	40	44	48	29	42	44
57	39	43	47	29	41	43
56	38	43	46	28	40	42
55	37	42	45	28	39	41

TABLE 158. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
54	37	41	44	27	38	40
53	36	40	43	26	37	39
52	35	39	42	26	36	38
51	34	38	41	25	35	38
50	34	38	40	25	35	37
49	33	37	39	24	34	36
48	32	36	38	24	33	35
47	32	35	37	23	32	34
46	31	34	36	23	31	33
45	30	34	35	22	30	32
44	29	33	34	21	29	31
43	29	32	33	21	29	31
42	28	31	32	20	28	30
41	27	30	31	20	27	29
40	26	29	30	19	26	28
39	26	29	29	19	25	27
38	25	28	28	18	24	26
37	24	27	27	18	23	25
36	24	26	26	17	22	25
35	23	25	25	17	22	24
34	22	24	24	16	21	23
33	21	24	23	15	20	22
32	21	[illegible]	22	15	19	21
31	20	[illegible]	21	14	18	20
30	19	21	20	14	17	19
29	18	20	19	13	16	18
28	18	19	18	13	16	18
27	17	19	17	12	15	17
26	16	18	16	12	14	16
25	15	17	15	11	13	15
24	15	16	14	11	12	14
23	14	15	13	10	11	13
22	13	14	12	9	10	12
21	13	14	11	9	10	11
20	12	13	10	8	9	11
19	11	12	8	8	8	10
18	10	11	7	7	7	9
17	10	10	6	7	6	8
16	9	10	5	6	5	7
15	8	9	4	6	4	6
14	7	8	3	5	3	5

TABLE 158. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT ([illegible] ED.) INTERM[illegible]IATE I FORM [illegible] TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
13	7	7	2	4	3	4
12	6	6	1	4	2	4
11	5	5	0	3	1	3
10	5	5	- 1	3	0	2
9	4	4	- 2	2	- 1	1
8	3	3	- 3	2	- 2	0
7	2	2	- 4	1	- 3	- 1
6	2	1	- 5	1	- 3	- 2
5	1	0	- 6	0	- 4	- 3
4	0	0	- 7	0	- 5	- 3
3	- 1	- 1	- 8	- 1	- 6	- 4
2	- 1	- 2	- 9	- 1	- 7	- 5
1	- 2	- 3	- 10	- 2	- 8	- 6
0	- 3	- 4	- 11	- 3	- 9	- 7

TABLE 159. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
60	81	91	105	115	90	93
59	80	90	103	113	89	91
58	78	88	101	111	87	90
57	77	86	99	109	86	88
56	76	85	97	107	84	87
55	74	83	96	105	83	85
54	73	82	94	104	81	83
53	72	80	92	102	79	82
52	70	79	90	100	78	80
51	69	77	88	98	76	79
50	68	76	86	96	75	77
49	66	74	85	94	73	75
48	65	73	83	93	71	74
47	64	71	81	91	70	72
46	62	70	79	89	68	71
45	61	68	77	87	67	69
44	60	67	75	85	65	67
43	58	65	73	84	64	66
42	57	64	72	82	62	64
41	56	62	70	80	60	63
40	54	61	68	78	59	61
39	53	59	66	76	57	59
38	52	58	64	74	56	58
37	50	56	62	73	54	56
36	49	55	61	71	52	55
35	48	53	59	69	51	53
34	46	52	57	67	49	52
33	45	50	55	65	48	50
32	44	49	53	63	46	48
31	42	47	51	62	45	47
30	41	46	50	60	43	45
29	39	44	48	58	41	44
28	38	43	46	56	40	42
27	37	41	44	54	38	40
26	35	40	42	52	37	39
25	34	38	40	51	35	37
24	33	37	38	49	33	36
23	31	35	37	47	32	34
22	30	34	35	45	30	32
21	29	32	33	43	29	31
20	27	31	31	41	27	29

TABLE 159. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
19	26	29	29	40	26	28
18	25	28	27	38	24	26
17	23	26	26	36	22	24
16	22	25	24	34	21	23
15	21	23	22	32	19	21
14	19	21	20	31	18	20
13	18	20	18	29	16	18
12	17	18	16	27	15	16
11	15	17	15	25	13	15
10	14	15	13	23	11	13
9	13	14	11	21	10	12
8	11	12	9	20	8	10
7	10	11	7	18	7	9
6	9	9	5	16	5	7
5	7	8	3	14	3	5
4	6	6	2	12	2	4
3	5	5	0	10	0	2
2	3	3	- 2	9	- 1	1
1	2	2	- 4	7	- 3	- 1
0	1	0	- 6	5	- 4	- 3

TABLE 160. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

SRA (71 ED.) BLUE FORM E TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
90	81	91	104	114	60	93
89	80	90	103	113	59	92
88	79	89	102	112	59	91
87	78	88	101	111	58	90
86	77	87	100	110	57	89
85	76	86	99	108	57	88
84	76	85	97	107	56	87
83	75	84	96	106	55	86
82	74	83	95	105	55	85
81	73	82	94	104	54	84
80	72	81	93	103	54	83
79	71	80	92	101	53	81
78	71	79	90	100	52	80
77	70	78	89	99	52	79
76	69	77	88	98	51	78
75	68	76	87	97	50	77
74	67	75	86	96	50	76
73	66	74	85	95	49	75
72	65	74	83	93	48	74
71	65	73	82	92	48	73
70	64	72	81	91	47	72
69	63	71	80	90	47	71
68	62	70	79	89	46	70
67	61	69	78	88	45	69
66	60	68	76	86	45	68
65	60	67	75	85	44	67
64	59	66	74	84	43	66
63	58	65	73	83	43	65
62	57	64	72	82	42	64
61	56	63	71	81	41	63
60	55	62	69	79	41	62
59	54	61	68	78	40	61
58	54	60	67	77	40	60
57	53	59	66	76	39	59
56	52	58	65	75	38	58
55	51	57	64	74	38	57
54	50	56	62	73	37	56
53	49	55	61	71	36	55
52	49	54	60	70	36	54
51	48	53	59	69	35	53
50	47	52	58	68	35	52

TABLE 16[illegible] ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

SRA (71 ED.) BLUE FORM E TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM C TOTAL READING	IITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
49	46	52	57	67	34	51
48	45	51	55	66	33	50
47	44	50	54	65	33	49
46	43	49	53	63	32	48
45	43	48	52	62	31	47
44	42	47	51	61	31	46
43	41	46	50	60	30	45
42	40	45	48	59	29	44
41	39	44	47	58	29	43
40	38	43	46	56	28	42
39	38	42	45	55	28	41
38	37	41	44	54	27	40
37	36	40	43	53	26	39
36	35	39	41	52	26	38
35	34	38	40	51	25	37
34	33	37	39	49	24	36
33	32	36	38	48	24	35
32	32	35	37	47	23	34
31	31	34	36	46	23	33
30	30	33	34	45	22	32
29	29	32	33	44	21	31
28	28	31	32	43	21	30
27	27	30	31	41	20	29
26	27	30	30	40	19	28
25	26	29	29	39	19	27
24	25	28	27	38	18	26
23	24	27	26	37	17	25
22	23	26	25	36	17	24
21	22	25	24	34	16	23
20	21	24	23	33	16	22
19	21	23	22	32	15	21
18	20	22	20	31	14	20
17	19	21	19	30	14	19
16	18	20	18	29	13	18
15	17	19	17	28	12	17
14	16	18	16	26	12	16
13	16	17	15	25	11	15
12	15	16	13	24	11	14
11	14	15	12	23	10	13
10	13	14	11	22	9	12
9	12	13	10	21	9	11

TABLE 160. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

SRA (71 ED.) BLUE FORM E TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
8	11	12	9	19	8	10
7	10	11	8	18	7	9
6	10	10	6	17	7	8
5	9	9	5	16	6	7
4	8	8	4	15	5	6
3	7	8	3	14	5	5
2	6	7	2	12	4	4
1	5	6	1	11	4	3
0	5	5	-1	10	3	2

TABLE 161. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
98	85	96	111	121	63	96
97	84	95	110	119	63	95
96	84	94	108	118	62	94
95	83	93	107	117	61	93
94	82	92	106	116	61	92
93	81	91	105	115	60	91
92	80	90	104	114	60	90
91	79	89	103	113	59	89
90	79	88	102	111	58	88
89	78	87	100	110	58	87
88	77	86	99	109	57	86
87	76	85	98	108	56	85
86	75	85	97	107	56	84
85	74	84	96	106	55	83
84	74	83	95	104	55	82
83	73	82	93	103	54	81
82	72	81	92	102	53	80
81	71	80	91	101	53	79
80	70	79	90	100	52	78
79	69	78	89	99	51	77
78	68	77	88	98	51	76
77	68	76	87	96	50	75
76	67	75	85	95	49	74
75	66	74	84	94	49	73
74	65	73	83	93	48	72
73	64	72	82	92	48	71
72	63	71	81	91	47	70
71	63	70	80	90	46	69
70	62	69	78	88	46	68
69	61	68	77	87	45	67
68	60	67	76	86	44	66
67	59	66	75	85	44	65
66	58	66	74	84	43	64
65	58	65	73	83	43	63
64	57	64	71	81	42	62
63	56	63	70	80	41	61
62	55	62	69	79	41	60
61	54	61	68	78	40	59
60	53	60	67	77	39	58
59	53	59	66	76	39	57
58	52	58	64	75	38	56

TABLE 161. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
57	51	57	63	73	38	55
56	50	56	62	72	37	54
55	49	55	61	71	36	53
54	48	54	60	70	36	52
53	48	53	59	69	35	51
52	47	52	58	68	34	50
51	46	51	56	67	34	49
50	45	50	55	65	33	48
49	44	49	54	64	33	47
48	43	48	53	63	32	46
47	42	47	52	62	31	45
46	42	47	51	61	31	44
45	41	46	49	60	30	43
44	40	45	48	59	29	42
43	39	44	47	57	29	41
42	38	43	46	56	28	40
41	37	42	45	55	28	39
40	37	41	44	54	27	38
39	36	40	43	53	26	37
38	35	39	41	52	26	36
37	34	38	40	51	25	35
36	33	37	39	49	24	34
35	32	36	38	48	24	33
34	32	35	37	47	23	32
33	31	34	36	46	22	31
32	30	33	34	45	22	30
31	29	32	33	44	21	29
30	28	31	32	42	21	28
29	27	30	31	41	20	27
28	27	29	30	40	19	26
27	26	29	29	39	19	25
26	25	28	27	38	18	24
25	24	27	26	37	17	23
24	23	26	25	36	17	22
23	22	25	24	34	16	21
22	21	24	23	33	16	20
21	21	23	22	32	15	19
20	20	22	21	31	14	18
19	19	21	19	30	14	17
18	18	20	18	29	13	16
17	17	19	17	28	12	15

TABLE 161. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, LINEAR METHOD

SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
16	16	18	16	26	12	14
15	16	17	15	25	11	13
14	15	16	14	24	11	12
13	14	15	12	23	10	11
12	13	14	11	22	9	10
11	12	13	10	21	9	9
10	11	12	9	19	8	8
9	11	11	8	18	7	7
8	10	10	7	17	7	6
7	9	10	5	16	6	5
6	8	9	4	15	6	4
5	7	8	3	14	5	3
4	6	7	2	13	4	2
3	6	6	1	11	4	1
2	5	5	0	10	3	0
1	4	4	- 1	9	2	- 1
0	3	3	- 3	8	2	- 2

TABLE 162. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
82	85	104	95	60	90	98
81	84	103	95	60	89	97
80	83	102	94	59	88	95
79	82	100	94	58	87	93
78	81	98	93	57	86	91
77	80	97	93	56	84	89
76	79	96	92	55	84	[illegible]
75	79	95	92	55	83	87
74	78	94	91	54	82	86
73	77	93	91	53	81	84
72	77	92	90	53	80	83
71	76	90	90	52	79	82
70	75	89	89	52	78	81
69	74	88	89	51	77	80
68	74	87	88	50	76	78
67	73	86	88	50	75	77
66	72	85	87	49	74	76
65	71	84	87	48	73	75
64	71	82	86	48	72	74
63	70	81	86	47	71	72
62	69	80	85	46	70	71
61	68	79	85	45	69	70
60	67	77	84	45	68	69
59	67	76	84	44	66	67
58	66	75	83	43	65	66
57	65	73	82	42	64	65
56	64	72	81	42	62	63
55	63	71	81	41	61	62
54	62	69	80	40	60	61
53	61	68	79	39	58	60
52	60	66	78	38	57	58
51	59	65	77	38	55	57
50	58	63	76	37	54	56
49	57	62	75	36	53	55
48	56	60	74	35	51	53
47	54	58	73	35	50	52
46	53	57	72	34	48	51
45	52	55	70	33	47	50
44	51	53	69	32	46	48
43	50	52	68	32	44	47
42	48	50	66	31	43	46

TABLE 162. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT)-READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
41	47	48	65	30	42	45
40	46	47	63	30	40	43
39	45	45	62	29	39	42
38	43	43	60	28	38	41
37	42	42	59	27	37	40
36	41	40	57	27	35	38
35	39	39	55	26	34	37
34	38	38	53	25	33	36
33	37	36	52	24	32	35
32	35	35	49	23	31	34
31	34	34	47	23	30	33
30	32	33	45	22	29	31
29	31	32	43	21	28	30
28	30	31	41	21	27	29
27	29	30	39	20	26	28
26	28	29	37	19	25	27
25	27	28	35	18	25	27
24	26	27	33	18	24	26
23	24	26	31	17	23	25
22	23	26	30	16	22	24
21	22	25	28	16	21	23
20	21	24	26	15	20	22
19	20	23	25	14	20	21
18	19	22	23	13	19	20
17	18	21	21	12	17	18
16	17	20	20	11	16	17
15	16	19	19	11	15	16
14	15	18	18	10	14	14
13	14	16	16	9	13	12
12	13	14	14	8	11	11
11	11	12	13	7	10	9
10	10	11	12	7	9	8
9	8	9	11	6	8	7
8	7	8	10	5	6	6
7	6	6	9	5	5	5
6	4	5	8	4	4	3
5	3	3	7	3	3	2
4	2	2	6	2	2	1
3	1	2	5	2	0	1
2	1	1	4	1	0	0
1	0	0	3	0	0	0

TABLE 162. ANCHOR TEST EQUATING STUDY: GRADE 4

CALIFORNIA ACHIEVEMENT TESTS (CAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM C TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
0	0	0	2	0	0	0

TABLE 163. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
85	82	104	95	60	90	98
84	81	103	95	60	89	97
83	80	102	94	59	88	95
82	79	100	94	58	87	93
81	78	99	93	57	86	91
80	77	97	93	56	85	89
79	76	95	92	55	83	88
78	74	94	91	54	82	86
77	73	92	91	53	81	84
76	71	91	90	52	80	82
75	70	89	89	52	78	81
74	69	88	89	51	77	79
73	67	86	88	50	76	77
72	66	85	87	49	74	76
71	65	83	87	48	73	74
70	63	82	86	47	72	73
69	62	80	85	46	70	71
68	61	78	85	45	69	70
67	60	77	84	44	67	68
66	59	75	83	44	66	67
65	57	74	82	43	64	65
64	56	72	82	42	63	64
63	55	71	81	41	61	62
62	54	69	80	40	60	61
61	53	68	79	39	58	60
60	52	67	78	39	57	59
59	51	65	77	38	56	58
58	50	64	76	37	54	56
57	49	62	75	37	53	55
56	49	61	74	36	52	54
55	48	60	73	35	51	53
54	47	58	72	34	49	52
53	46	56	71	34	48	51
52	45	55	70	33	47	50
51	44	54	69	32	46	49
50	43	52	68	32	45	48
49	43	51	67	31	44	47
48	42	50	66	31	43	46
47	41	48	65	30	42	45
46	40	47	64	30	40	44
45	39	46	62	29	39	43

TABLE 163. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
44	39	44	61	28	38	42
43	38	43	60	28	38	41
42	37	42	59	27	37	40
41	36	41	57	27	36	39
40	36	40	56	26	35	38
39	35	39	55	26	34	37
38	34	38	54	25	33	36
37	33	37	52	25	32	35
36	33	36	51	24	32	34
35	32	35	49	23	31	34
34	31	34	48	23	30	33
33	31	33	46	22	29	32
32	30	32	45	22	28	31
31	29	32	43	21	28	30
30	28	31	41	21	27	29
29	27	30	40	20	26	29
28	26	29	38	19	26	28
27	25	28	36	19	25	27
26	25	28	34	18	24	26
25	24	27	32	17	23	25
24	23	26	31	17	23	24
23	22	25	29	16	22	23
22	21	24	27	15	21	22
21	20	24	26	15	20	21
20	19	23	24	14	19	20
19	18	22	23	13	18	19
18	17	21	21	12	17	18
17	16	19	20	11	16	17
16	15	18	18	10	15	16
15	14	17	17	10	14	14
14	13	16	16	9	13	12
13	12	14	15	8	12	11
12	12	13	14	8	11	10
11	11	12	13	7	10	9
10	10	11	12	7	9	8
9	9	10	12	6	8	8
8	9	9	11	6	7	7
7	8	8	10	5	6	6
6	7	7	9	5	6	5
5	6	6	9	4	5	4
4	6	5	8	4	4	3

TABLE 163. ANCHOR TEST EQUATING STUDY: GRADE 4

COMPREHENSIVE TESTS OF BASIC SKILLS (CTBS) READING, 1968 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
3	5	4	7	3	3	2
2	4	3	6	3	2	1
1	4	2	6	2	2	1
0	3	1	5	2	1	0

TABLE 164. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
106	82	85	95	60	90	98
105	82	85	95	60	90	98
104	81	84	95	60	90	97
103	81	84	95	60	89	97
102	81	84	95	59	89	96
101	80	83	94	59	88	95
100	79	82	94	58	87	93
99	79	82	94	57	86	92
98	78	81	93	57	85	91
97	77	80	93	56	85	89
96	76	79	92	55	84	88
95	75	79	92	55	83	87
94	75	78	91	54	82	86
93	74	78	91	54	82	85
92	73	77	91	53	81	84
91	72	76	90	53	80	82
90	71	76	90	52	79	81
89	70	75	89	51	78	80
88	69	74	89	51	77	79
87	68	74	88	50	76	78
86	67	73	88	50	75	77
85	66	72	88	49	75	76
84	65	72	87	49	74	75
83	65	71	87	48	73	74
82	64	70	86	48	72	73
81	63	70	86	47	71	72
80	62	69	85	46	70	71
79	62	69	85	46	69	70
78	61	68	85	45	68	69
77	60	67	84	45	67	68
76	59	67	84	44	66	67
75	58	66	83	43	66	66
74	58	65	83	43	64	65
73	57	65	82	42	63	64
72	56	64	81	42	63	63
71	55	63	81	41	62	63
70	55	63	80	41	61	62
69	54	62	80	40	59	61
68	53	61	79	39	58	60
67	53	60	78	39	57	59
66	52	60	78	38	56	58

TABLE 164. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
65	51	59	77	38	56	57
64	51	58	76	37	55	57
63	50	58	76	37	54	56
62	49	57	75	36	53	55
61	49	56	74	36	52	54
60	48	55	74	35	51	53
59	47	55	73	35	50	53
58	47	54	72	35	49	52
57	46	53	72	34	49	51
56	46	53	71	34	48	50
55	45	52	70	33	47	50
54	44	51	70	33	46	49
53	44	51	69	32	45	48
52	43	50	68	32	44	47
51	43	49	67	31	44	47
50	42	48	66	31	43	46
49	42	48	66	31	42	45
48	41	47	65	30	41	44
47	40	46	64	30	41	44
46	40	45	63	29	40	43
45	39	45	62	29	39	42
44	38	44	61	28	38	41
43	38	43	60	28	37	41
42	37	42	59	27	37	40
41	37	41	58	27	36	39
40	36	40	57	26	35	38
39	35	39	56	26	34	37
38	34	38	54	25	34	36
37	34	37	53	25	33	35
36	33	36	51	24	32	35
35	32	35	50	23	31	34
34	31	34	48	23	30	33
33	30	33	46	22	29	32
32	30	32	44	22	28	31
31	28	30	42	21	27	30
30	27	29	40	20	26	29
29	26	28	37	19	25	28
28	25	27	35	18	24	26
27	24	25	33	17	24	25
26	23	24	30	17	22	24
25	21	23	28	16	21	23

TABLE 164. ANCHOR TEST EQUATING STUDY: GRADE 4

IOWA TEST OF BASIC SKILLS (ITBS) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
24	20	22	27	15	21	22
23	19	20	25	14	20	21
22	18	19	23	13	19	20
21	17	19	22	13	18	19
20	16	18	20	12	17	18
19	15	17	19	11	16	17
18	14	16	18	10	15	15
17	14	15	17	10	14	14
16	13	14	16	9	13	13
15	13	14	15	9	12	12
14	12	13	15	8	12	11
13	12	12	14	8	11	10
12	11	11	13	7	10	9
11	10	10	12	7	9	8
10	9	9	12	6	8	[illegible]
9	9	8	11	6	7	7
8	8	7	10	5	6	6
7	7	6	10	5	6	5
6	7	5	9	4	5	4
5	6	4	8	4	4	3
4	5	3	7	3	3	3
3	4	2	7	3	2	2
2	4	1	6	2	2	1
1	3	1	5	2	1	1
0	2	0	4	1	1	0

TABLE 165. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
95	81	84	103	60	90	97
94	80	82	101	58	87	94
93	78	81	98	57	85	91
92	76	79	96	55	83	88
91	74	78	93	54	82	85
90	71	76	91	53	80	82
89	69	75	89	51	73	80
88	67	73	86	50	76	78
87	65	72	84	49	74	75
86	63	70	81	47	72	73
85	62	69	79	46	70	71
84	60	67	77	45	67	68
83	58	66	75	43	65	66
82	57	65	73	42	64	65
81	56	63	71	41	62	63
80	54	62	70	40	60	61
79	53	61	68	39	58	60
78	52	60	67	39	57	59
77	51	59	65	38	56	57
76	50	58	63	37	54	56
75	49	57	62	36	53	55
74	48	56	60	36	51	54
73	47	55	59	35	50	53
72	46	54	58	34	49	52
71	46	53	56	34	48	50
70	45	52	55	33	47	49
69	44	51	53	32	45	48
68	43	50	52	32	44	47
67	43	49	51	31	44	46
66	42	48	50	31	43	46
65	41	47	48	30	42	45
64	41	46	47	30	41	44
63	40	46	46	29	40	43
62	39	45	45	29	39	42
61	39	44	44	28	38	42
60	38	43	43	28	38	41
59	37	42	42	28	37	40
58	37	42	41	27	36	39
57	36	41	40	27	35	38
56	36	40	40	26	35	38
55	35	39	39	26	34	37

TABLE 165. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
54	34	38	38	25	34	36
53	34	38	37	25	33	36
52	33	37	37	24	32	35
51	33	36	36	24	32	35
50	32	36	35	24	31	34
49	32	35	35	23	31	33
48	31	34	34	23	30	33
47	31	34	34	23	30	32
46	30	33	33	22	29	32
45	30	32	33	22	29	31
44	29	32	32	22	28	31
43	29	31	32	21	28	30
42	29	31	31	21	27	30
41	28	30	31	20	27	29
40	27	29	30	20	26	29
39	27	29	30	20	26	28
38	26	28	29	19	26	28
37	26	28	29	19	25	27
36	25	27	28	19	25	27
35	25	27	28	18	24	26
34	24	26	28	18	24	26
33	24	25	27	18	24	25
32	23	25	27	17	23	25
31	23	24	26	17	23	25
30	22	24	26	16	22	24
29	22	23	25	16	22	23
28	21	23	25	16	21	23
27	21	22	24	15	21	22
26	20	21	24	15	20	22
25	19	21	23	14	20	21
24	19	20	23	14	19	20
23	18	19	22	13	19	20
22	17	19	21	13	18	19
21	17	18	21	12	17	18
20	16	17	20	11	16	17
19	15	17	19	11	15	16
18	14	16	18	10	15	15
17	14	15	17	10	14	14
16	13	14	16	9	13	13
15	13	13	15	9	12	11
14	12	12	13	8	11	10

TABLE 165. ANCHOR TEST EQUATING STUDY: GRADE 4

METROPOLITAN ACHIEVEMENT (MAT) READING, 1970 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
13	11	11	12	7	10	9
12	10	10	11	7	9	8
11	9	8	9	6	7	7
10	8	7	8	5	6	6
9	7	6	6	4	5	4
8	6	4	5	4	4	3
7	5	3	4	3	3	2
6	4	2	2	2	2	1
5	3	1	1	2	2	1
4	2	0	0	1	1	0
3	2	0	0	1	1	0
2	1	0	0	1	0	0
1	1	0	0	0	0	0
0	1	0	0	0	0	0

TABLE 166. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
60	82	85	104	95	90	98
59	80	83	102	95	89	96
58	79	82	101	94	87	93
57	78	81	99	93	86	91
56	77	80	97	93	85	89
55	76	79	95	92	83	88
54	74	78	94	91	82	86
53	72	77	92	90	81	83
52	71	76	90	90	79	81
51	69	74	88	89	77	80
50	68	73	87	88	76	78
49	66	72	85	87	74	76
48	65	71	83	87	73	74
47	63	70	81	86	71	72
46	62	69	80	85	70	71
45	61	68	78	84	68	69
44	59	67	76	84	67	68
43	58	66	74	83	65	66
42	57	64	73	82	63	64
41	55	63	71	81	61	63
40	54	62	69	80	60	61
39	53	61	67	79	58	59
38	52	59	66	77	56	58
37	50	58	64	76	54	56
36	49	56	61	75	52	54
35	48	55	59	73	50	53
34	46	54	57	72	49	51
33	45	52	55	70	47	50
32	44	50	53	69	45	48
31	42	49	50	67	43	46
30	41	47	48	65	41	44
29	39	45	46	62	39	43
28	38	43	44	60	38	41
27	37	42	41	58	36	39
26	35	40	39	56	35	38
25	34	38	38	54	33	36
24	33	36	36	51	32	35
23	32	34	34	48	30	33
22	30	33	33	46	29	32
21	29	31	31	43	28	30
20	27	29	30	40	26	29

TABLE 166. ANCHOR TEST EQUATING STUDY: GRADE 4

SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SERIES II (STEP-II) READING, 1969 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
19	26	28	29	37	25	27
18	25	26	28	34	24	26
17	23	25	27	32	23	25
16	22	23	25	29	22	23
15	20	22	24	27	21	22
14	19	20	23	25	19	21
13	18	19	22	23	18	19
12	17	18	21	21	17	18
11	16	17	19	20	16	17
10	14	16	18	18	14	15
9	13	14	16	16	13	13
8	12	12	14	14	11	11
7	11	11	12	13	10	9
6	9	9	10	11	8	7
5	8	7	8	10	6	6
4	6	5	6	8	4	4
3	5	3	3	7	3	2
2	4	1	2	5	1	1
1	2	0	1	4	0	0
0	1	0	0	3	0	0

TABLE 167. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

SRA (71 ED.) BLUE FORM E TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
90 .	82	85	104	95	60	98
89	81	84	103	95	59	96
88	80	83	102	94	59	95
87	79	82	100	94	58	93
86	78	81	99	93	57	92
85	78	81	98	93	56	90
84	77	80	96	92	56	89
83	75	79	95	92	55	87
82	74	78	94	91	54	86
81	73	77	92	91	53	84
80	72	76	91	90	53	83
79	71	76	90	90	52	81
78	70	75	89	89	51	80
77	69	74	88	89	51	79
76	68	73	87	88	50	78
75	67	73	86	88	50	77
74	66	72	84	87	49	76
73	65	71	83	87	48	75
72	64	70	82	86	48	73
71	63	70	81	86	47	72
70	62	69	80	85	46	71
69	61	68	79	85	46	70
68	60	68	78	84	45	69
67	60	67	77	84	44	68
66	59	66	76	83	44	67
65	58	66	75	83	43	66
64	57	65	74	82	43	65
63	57	64	73	82	42	64
62	56	64	72	81	41	63
61	55	63	71	81	41	62
60	54	62	70	80	40	61
59	54	62	69	79	40	60
58	53	61	68	79	39	60
57	52	60	67	78	39	59
56	52	59	66	77	38	58
55	51	59	65	77	38	57
54	50	58	63	76	37	56
53	49	57	62	75	37	55
52	49	56	61	75	36	54
51	48	55	60	74	35	53
50	47	55	59	73	35	53

TABLE 167. ANCHOR TEST .CUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

SRA (71 ED.) BLUE FORM E TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
49	47	54	58	72	34	52
48	45	53	57	71	34	51
47	45	52	55	71	33	50
46	44	51	54	70	33	49
45	44	50	53	69	32	48
44	43	49	52	68	32	47
43	42	48	50	67	31	46
42	42	48	49	65	31	45
41	41	47	48	64	30	44
40	40	46	46	63	29	43
39	39	45	45	62	29	42
38	39	44	44	61	28	41
37	37	43	42	59	28	40
36	37	41	41	58	27	39
35	36	40	40	56	26	38
34	35	39	39	55	26	37
33	34	38	37	53	25	36
32	33	37	36	52	24	35
31	32	35	35	50	24	34
30	31	34	34	48	23	33
29	30	33	33	46	22	32
28	29	32	32	44	21	31
27	28	30	31	41	21	29
26	27	29	30	39	20	28
25	26	27	29	37	19	27
24	24	26	28	34	18	26
23	23	25	27	32	17	25
22	22	23	26	30	16	24
21	21	22	25	28	15	23
20	20	21	24	26	15	21
19	19	20	23	24	14	20
18	18	19	21	22	13	19
17	17	18	21	21	12	18
16	16	17	20	20	11	17
15	15	16	19	19	11	16
14	14	15	18	18	10	14
13	13	14	16	16	9	13
12	13	13	15	15	9	11
11	12	12	13	14	8	10
10	11	11	12	13	7	9
9	10	10	11	12	7	8

TABLE 167. ANCHOR TEST EQUATING STUDY: GRADE 4

SRA ACHIEVEMENT SERIES (SRA) READING, 1971 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

SRA (71 ED.) BLUE FORM E TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
8	9	9	10	11	6	7
7	9	8	9	11	6	6
6	8	7	7	10	5	5
5	7	5	6	9	4	4
4	6	4	5	8	4	3
3	5	3	4	7	3	2
2	4	2	3	6	3	1
1	4	2	2	5	2	1
0	3	1	2	4	1	1

TABLE 168. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
98	82	85	104	95	60	90
97	81	84	103	95	60	90
96	81	84	103	95	59	89
95	80	83	102	95	59	88
94	80	83	101	94	58	88
93	79	82	100	94	58	87
92	79	82	99	94	57	86
91	78	81	99	93	57	86
90	78	81	98	93	56	85
89	77	80	97	93	56	84
88	76	79	96	92	55	84
87	75	79	95	92	55	83
86	75	78	94	91	54	82
85	74	78	93	91	54	82
84	73	77	92	91	53	81
83	72	77	92	90	53	80
82	71	76	91	90	52	80
81	70	75	90	90	52	79
80	70	75	89	89	51	78
79	69	74	88	89	51	77
78	68	73	87	88	50	76
77	67	73	86	88	50	75
76	66	72	85	87	49	74
75	65	72	84	87	49	74
74	64	71	83	87	48	73
73	64	70	82	86	47	72
72	63	70	81	86	47	71
71	62	69	80	85	46	70
70	61	68	79	85	46	69
69	60	68	78	84	45	68
68	60	67	77	84	44	67
67	59	66	76	83	44	66
66	58	66	75	83	43	65
65	57	65	74	82	43	64
64	57	64	73	82	42	63
63	56	64	72	81	41	62
62	55	63	71	81	41	61
61	54	62	69	80	40	60
60	53	61	68	79	40	59
59	53	60	67	78	39	58
58	52	60	66	78	38	56

TABLE 168. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
57	51	59	65	77	38	55
56	50	58	63	76	37	54
55	49	57	62	75	36	53
54	49	56	61	74	36	52
53	48	55	60	73	35	51
52	47	54	58	73	35	50
51	46	53	57	72	34	48
50	45	52	56	71	33	47
49	45	52	54	70	33	46
48	44	51	53	69	32	45
47	43	50	52	68	32	44
46	42	49	50	67	31	43
45	41	48	49	65	31	42
44	41	47	48	64	30	41
43	40	46	46	63	29	40
42	39	44	45	62	29	39
41	38	43	44	60	28	38
40	37	42	42	59	28	37
39	37	41	41	58	27	36
38	36	40	40	56	26	35
37	35	39	39	55	26	34
36	34	38	38	54	25	33
35	33	37	37	52	24	32
34	32	36	35	50	24	31
33	32	34	34	48	23	30
32	31	33	33	47	22	29
31	30	32	32	45	22	28
30	29	31	31	43	21	28
29	28	30	31	41	20	27
28	27	29	30	39	20	26
27	26	27	29	36	19	25
26	25	26	28	34	18	24
25	23	25	27	32	17	23
24	22	24	26	30	17	22
23	21	23	25	28	16	21
22	20	22	24	27	15	21
21	19	21	23	25	14	20
20	18	20	22	24	14	19
19	18	19	21	22	13	18
18	17	18	20	21	12	17
17	16	17	20	20	11	16

TABLE 168. ANCHOR TEST EQUATING STUDY: GRADE 4

STANFORD ACHIEVEMENT TEST (SAT) READING, 1964 EDITION: EQUIVALENT RAW SCORES FOR TOTAL READING

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE METHOD

SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING	MAT (70 ED.) ELEMENTARY FORM F TOTAL READING	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING	SRA (71 ED.) BLUE FORM E TOTAL READING
RAW SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE	EQUIVALENT SCORE
16	15	16	19	19	11	15
15	14	16	18	18	10	14
14	14	15	17	17	10	14
13	13	14	16	16	9	13
12	13	14	15	16	9	13
11	12	13	14	15	8	12
10	12	12	13	14	8	11
9	11	11	12	13	7	10
8	10	10	11	12	7	9
7	9	9	10	11	6	8
6	8	7	8	10	5	7
5	7	6	7	10	5	6
4	7	5	6	9	4	5
3	6	4	5	8	4	4
2	5	3	3	7	3	3
1	4	2	2	6	2	2
0	3	1	1	5	2	1

LIST OF EQUATING ERROR TABLES AT GRADE 4

Method	Table Numbers		
	Vocabulary	Reading Comprehension	Total Reading
Procedure 1: Linear Method	2077	2085	2093
Procedure 1: Equipercentile Method	2078	2086	2094
Procedure 2: Linear Method	2079	2087	2095
Procedure 2: Equipercentile Method	2080	2088	2096
Procedure 3: Linear Method	2081	2089	2097
Procedure 3: Equipercentile Method	2082	2090	2098
Average of Procedures 1 and 2: Linear Method	2083	2091	2099
Average of Procedures 1 and 2: Equipercentile Method	2084	2092	2100

TABLE 2077. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE VOCABULARY SUBTESTS TO THE MAT (70 ED.) ELEMENTARY, FORM F, WORD KNOWLEDGE SUBTEST

PROCEDURE 1, LINEAR

RAW SCORE	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY MAT EQUIV.	ERROR	CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY MAT EQUIV.	ERROR	ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY MAT EQUIV.	ERROR	STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.) MAT EQUIV.	ERROR	SRA (71 ED.) BLUE FORM E VOCABULARY MAT EQUIV.	ERROR	SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING MAT EQUIV.	ERROR
42									[illegible]	.63		
41									57.4	.59		
40	61.3	.71	58.0	.75					56.2	.56		
39	59.9	.63	56.7	.70					55.0	.50		
38	58.6	.61	55.3	.65	58.9	.71			53.8	.45	63.9	.78
37	57.2	.55	53.9	.54	57.6	.66			52.6	.42	62.5	.73
36	55.8	.47	52.6	.52	56.2	.59			51.4	.35	61.0	.68
35	54.4	.41	51.2	.45	54.9	.54			50.2	.30	59.5	.59
34	53.1	.36	49.9	.40	53.5	.49			49.0	.27	58.0	.55
33	51.7	.32	48.5	.35	52.2	.44			47.8	.20	56.5	.48
32	50.3	.23	47.1	.28	50.8	.40			46.6	.19	55.0	.43
31	48.9	.19	45.8	.26	49.5	.37			45.4	.16	[illegible]	.37
30	47.5	.15	44.4	.24	48.1	.32	59.5	.66	44.2	.15	52.0	.34
29	46.2	.14	43.1	.26	46.7	.28	57.6	.61	43.0	.18	50.6	.32
28	44.8	.13	41.7	.26	45.4	.30	55.6	.51	41.9	.21	49.1	.29
27	43.4	.17	40.3	.28	44.0	.29	53.6	.43	[illegible]	.22	47.6	.27
26	42.0	.21	39.0	.36	42.7	.32	51.7	.38	[illegible]	.28	46.1	.29
25	40.7	.25	37.6	.39	41.3	.32	49.7	.29	[illegible]	.32	44.6	.29
24	39.3	.32	36.2	.47	40.0	.39	47.7	.21	[illegible]	.35	43.1	.33
23	37.9	.37	34.9	.50	38.6	.43	45.8	.21	35.9	.42	41.6	.37
22	36.5	.44	33.5	.56	37.3	.46	43.8	.18	34.7	.46	40.1	.41
21	35.1	.49	32.2	.65	35.9	.50	41.8	.22	33.5	.51	38.6	[illegible]
20	33.8	.55	30.8	.68	34.6	.55	39.9	.27	[illegible]	.56	37.2	.53
19	32.4	.62	29.4	.75	33.2	.61	37.9	.35	31.1	.61	35.7	.61
18	31.0	.69	28.1	.82	31.8	.68	35.9	.41	29.9	.66	34.2	.65
17	29.6	.73	26.7	.88	30.5	.70	33.9	.49	28.7	.71	32.7	.71
16	28.3	.81	25.3	.96	29.1	.78	32.0	.54	27.5	.78	31.2	.78
15	26.9	.86	24.0	1.02	27.8	.85	30.0	.63	26.3	.81	29.7	.83
14	25.5	.91	22.6	1.08	26.4	.91	28.0	.72	25.2	.84	28.2	.89
13	24.1	.98	21.3	1.14	25.1	.97	26.1	.79	24.0	.91	26.7	.97
12	22.7	1.05	19.9	1.22	23.7	1.02	24.1	.89	22.8	.95	25.3	1.02
11	21.4	1.12	18.5	1.29	22.4	1.09	22.1	.98	21.6	1.01	23.8	1.10
10	20.0	1.16	17.2	1.34	21.0	1.15	20.2	1.05	20.4	1.08	22.3	1.15
9	18.6	1.25	15.8	1.41	19.7	1.21	18.2	1.13	19.2	1.12	20.8	1.22
8	17.2	1.30	14.5	1.48	18.3	1.26	16.2	1.22	18.0	1.18	19.3	1.28
7	15.9	1.34	13.1	1.55	17.0	1.33	14.3	1.30	16.8	1.24	17.8	1.34
6	14.5	1.41	11.7	1.62	15.6	1.41	12.3	1.39	15.6	1.30	16.3	1.41
5	13.1	1.48	10.4	1.68	14.2	1.45	10.3	1.48	14.4	1.36	14.8	1.49
4	11.7	1.55	9.0	1.76	12.9	1.52	8.4	1.54	13.2	1.41	13.3	1.55
3	10.4	1.60	7.6	1.80	11.5	1.57	6.4	1.65	12.0	1.45	11.9	1.61
2	9.0	1.67	6.3	1.89	10.2	1.65	4.4	1.73	10.8	1.47	10.4	1.68

TABLE 2077. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE VOCABULARY SUBTESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, WORD KNOWLEDGE SUBTEST

PROCEDURE 1, LINEAR

	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY		CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY		ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY		STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)		SRA (71 ED.) BLUE FORM E VOCABULARY		SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
1	7.6	1.74	4.9	1.97	8.8	1.69	2.5	1.80	9.7	1.52	8.9	1.74
0	6.2	1.78	3.6	2.01	7.5	1.77	.5	1.89	8.5	1.58	7.4	1.80

ESTIMATES OF ERROR IN EQUATING THE VOCABULARY SUBTESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, WORD KNOWLEDGE SUBTEST

PROCEDURE 1, EQUIPERCENTILE

	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY		CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY		ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY		STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)		SRA (71 ED.) BLUE FORM E VOCABULARY		SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
42									50.3	.05		
41									49.7	.12		
40	50.4	.05	50.4	.06					49.1	.11		
39	50.1	.06	50.1	.09					48.5	.09		
38	49.6	.07	49.5	.12	50.3	.06			47.9	.12	50.4	.00
37	49.1	.07	48.9	.14	50.0	.12			47.4	.09	50.2	.09
36	48.6	.12	48.3	.10	49.3	.17			46.9	.10	50.0	.10
35	48.2	.08	47.7	.11	48.7	.17			46.5	.10	49.7	.11
34	47.8	.07	47.1	.11	48.1	.12			46.0	.08	49.2	.09
33	47.3	.10	46.5	.11	47.5	.14			45.6	.15	48.8	.09
32	46.9	.09	45.8	.11	46.9	.14			45.1	.14	48.4	.09
31	46.4	.08	45.1	.15	46.4	.14			44.5	.10	47.[illegible]	.10
30	45.9	.12	44.4	.16	45.9	.16	50.3	.06	43.9	.12	47.4	.12
29	45.3	.13	43.5	.18	45.3	.17	50.0	.07	43.3	.07	46.9	.13
28	44.7	.14	42.7	.19	44.7	.17	49.3	.13	42.7	.05	46.4	.13
27	44.1	.13	41.7	.21	44.0	.19	48.6	.12	42.1	.06	45.9	.14
26	43.3	.15	40.8	.28	43.3	.18	47.8	.11	41.6	.14	45.4	.20
25	42.5	.15	39.7	.38	42.6	.17	47.0	.14	41.[illegible]	.16	44.7	.19
24	41.6	.14	38.6	.47	41.8	.18	46.2	.13	40.3	.17	43.9	.20
23	40.7	.12	37.5	.49	41.1	.23	45.4	.16	39.6	.19	43.1	.25
22	39.7	.21	36.3	.48	40.3	.27	44.2	.15	38.[illegible]	.25	42.3	.30
21	38.7	.33	35.1	.54	39.5	.36	43.0	.15	38.0	.31	41.4	.29
20	37.4	.40	33.8	.54	38.6	.43	41.6	.17	37.1	.31	40.3	.33
19	36.2	.48	32.2	.60	37.5	.43	40.1	.24	36.1	.33	39.2	.39
18	34.9	.53	30.5	.74	36.2	.53	38.5	.37	35.1	.41	38.0	.49
17	33.3	.57	28.7	.83	34.9	.62	36.5	.35	33.8	.40	36.6	.54
16	31.3	.73	26.7	.88	33.3	.71	34.3	.40	32.3	.46	35.3	.59
15	29.1	.99	24.6	1.03	31.5	.84	31.8	.62	30.7	.68	33.6	.61
14	26.7	1.29	22.4	1.12	29.5	1.00	29.1	.79	28.5	.86	31.7	.73
13	24.2	1.51	20.1	1.22	27.1	1.19	26.3	.91	26.0	1.04	29.5	.94
12	21.7	1.48	18.2	1.24	24.3	1.36	23.4	1.11	23.1	1.35	26.8	1.14
11	19.2	1.39	16.4	1.26	21.2	1.48	20.3	1.25	20.0	1.43	24.0	1.39
10	16.9	1.25	14.8	1.16	18.5	1.38	18.0	1.11	17.3	1.23	20.9	1.37
9	15.0	1.08	13.3	1.11	16.0	1.12	15.8	1.01	14.9	1.04	18.2	1.30
8	13.4	1.02	11.8	1.07	14.0	1.00	14.1	.94	12.8	1.03	15.8	1.13
7	11.7	1.01	10.2	.99	12.0	.92	12.4	.90	11.0	.97	14.0	1.15
6	10.0	.95	8.6	.77	9.9	.96	10.7	.99	8.9	1.04	12.2	1.16
5	8.2	.87	7.3	.61	7.9	.73	8.9	.96	7.4	.77	10.4	1.24
4	6.7	.60	5.8	.56	6.6	.64	7.6	.73	6.2	.61	8.5	1.26
3	4.8	.72	3.3	.58	5.1	.65	6.2	.65	4.7	.67	7.0	.98
2	2.7	1.06	.8	.77	3.5	.62	3.6	1.02	3.2	.75	5.2	.83

TABLE 2078. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE VOCABULARY SUBTESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, WORD KNOWLEDGE SUBTEST

PROCEDURE 1, EQUIPERCENTILE

	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY		CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY		ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY		STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)		SRA (71 ED.) BLUE FORM E VOCABULARY		SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
1	.6	1.44	.0	.14	1.9	.72	.9	1.79	1.7	.84	2.9	.80
0	.0	.89	.0	.00	.3	.81	.0	1.11	.2	.94	.6	.89

TABLE 2079. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE VOCABULARY SUBTESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, WORD KNOWLEDGE SUBTEST

PROCEDURE 2, LINEAR

	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY		CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY		ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY		STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)		SRA (71 ED.) BLUE FORM E VOCABULARY		SAT (64 ED.) INTERMEDIATE 1 FORM W WORD MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
42									58.0	.30		
41									56.8	.30		
40	60.3	.44	58.2	.57					55.6	.27		
39	59.0	.41	56.8	.52					54.5	.29		
38	57.6	.39	55.5	.49	59.1	.54			53.3	.24	64.0	.79
37	56.3	.33	54.1	.43	57.7	.50			52.1	.25	62.5	.76
36	54.9	.29	52.7	.37	56.4	.45			50.9	.22	61.0	[illegible]
35	53.6	.27	51.4	.35	55.1	.44			49.7	.20	59.5	.64
34	52.2	.23	50.0	.26	53.7	.38			48.6	.23	58.0	.61
33	50.9	.21	48.7	.27	52.4	.36			47.4	.22	56.5	.55
32	49.5	.19	47.3	.21	51.0	.31			46.2	.24	55.1	.55
31	48.2	.19	45.9	.15	49.7	.28			45.0	.22	53.6	.51
30	46.8	.17	44.6	.19	48.4	.28	59.1	.36	43.9	.27	52.1	.46
29	45.5	.17	43.2	.14	47.0	.25	57.2	.33	42.7	.28	50.6	.41
28	44.1	.16	41.9	.19	45.7	.23	55.3	.29	41.5	.30	49.1	.40
27	42.8	.17	40.5	.20	44.4	.26	53.4	.24	40.3	.30	47.6	[illegible]
26	41.4	.18	39.2	.27	43.0	.25	51.5	.21	39.2	.34	46.1	.33
25	40.1	.20	37.8	.28	41.7	.28	49.6	.18	38.0	.34	44.6	.29
24	38.7	.21	36.4	.30	40.3	.28	47.7	.15	36.8	.35	43.1	.31
23	37.4	.25	35.1	.36	39.0	.31	45.8	.15	35.6	.39	41.6	.29
22	36.0	.29	33.7	.40	37.7	.36	[illegible]	.12	[illegible]	.45	40.1	.33
21	34.7	.33	32.4	.45	36.3	.39	42.0	.14	33.3	.45	38.6	.33
20	33.3	.34	31.0	.47	35.0	.41	40.1	.14	32.1	.48	37.1	.35
19	32.0	.39	29.6	.53	33.6	.46	38.1	.15	30.9	.49	35.6	.39
18	30.6	.41	28.3	.57	32.3	.48	36.2	.20	29.7	.52	34.2	.44
17	29.3	.44	26.9	.61	31.0	.53	34.3	.23	28.6	.55	32.7	.48
16	27.9	.46	25.6	.66	29.6	.55	32.4	.27	27.4	.57	31.2	.49
15	26.6	.51	24.2	.73	28.3	.59	30.5	.31	26.2	.61	29.7	.55
14	25.2	.54	22.8	.77	26.9	.64	28.6	.33	25.0	.63	28.2	.60
13	23.9	.58	21.5	.81	25.6	.69	26.7	.38	23.9	.65	26.7	.66
12	22.5	.60	20.1	.87	24.3	.74	24.8	.42	22.7	.70	25.2	.69
11	21.2	.64	18.8	.92	22.9	.77	22.9	.49	21.5	.71	[illegible]	.71
10	19.8	.67	17.4	.95	21.6	.83	21.0	.50	20.3	.75	22.2	.78
9	18.5	.72	16.0	1.01	20.2	.87	19.1	.53	19.2	.78	20.7	.84
8	17.1	.74	14.7	1.07	18.9	.90	17.2	.58	18.0	.79	19.2	.88
7	15.8	.79	13.3	1.10	17.6	.95	15.2	.65	[illegible]	.85	17.7	.93
6	14.4	.83	12.0	1.16	16.2	.99	13.3	.69	[illegible]	.87	16.2	1.01
5	13.1	.85	10.6	1.20	14.9	1.04	11.4	.73	[illegible]	.91	14.7	1.04
4	11.7	.90	9.2	1.27	13.6	1.06	9.5	.76	[illegible]	.90	13.3	1.07
3	10.4	.93	7.9	1.29	12.2	1.11	7.6	.83	12.1	.94	11.8	1.12
2	9.1	.96	6.5	1.36	10.9	1.17	5.7	.85	10.9	.97	10.3	1.18

TABLE 2079. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE VOCABULARY SUBTESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, WORD KNOWLEDGE SUBTEST

PROCEDURE 2, LINEAR

	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY		CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY		ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY		STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)		SRA (71 ED.) BLUE FORM E VOCABULARY		SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
1	7.7	.99	5.2	1.42	9.5	1.21	3.8	.89	9.8	.99	8.8	1.25
0	6.4	1.03	3.8	1.45	8.2	1.25	1.9	.93	8.6	1.01	7.3	1.27

TABLE 2080. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE VOCABULARY SUBTESTS TO THE MAT (70 ED.) ELEMENTARY, FORM F, WORD KNOWLEDGE SUBTEST

PROCEDURE 2, EQUIPERCENTILE

	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY		CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY		ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY		STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)		SRA (71 ED.) BLUE FORM E VOCABULARY		SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
42									50.3	.05		
41									49.5	.08		
40	50.3	.05	50.3	.00					48.8	.09		
39	50.0	.05	50.0	.06					48.1	.10		
38	49.4	.11	49.3	.06	50.3	.00			47.6	.14	50.4	.00
37	48.9	.11	48.7	.08	49.9	.04			47.1	.13	50.2	.05
36	48.3	.16	48.1	.09	49.2	.08			46.5	.10	50.0	.09
35	47.8	.12	47.5	.12	48.5	.11			46.0	.10	49.5	.14
34	47.3	.12	46.8	.11	47.9	.13			45.5	.15	49.1	.09
33	46.9	.16	46.2	.13	47.4	.13			45.0	.17	48.6	.12
32	46.4	.11	45.6	.15	46.8	.11			44.5	.20	48.1	.09
31	45.9	.08	44.9	.11	46.3	.12			44.1	.21	47.6	.07
30	45.4	.06	44.3	.11	45.7	.15	50.3	.00	43.7	.21	47.1	.07
29	44.9	.06	43.7	.18	45.2	.15	50.0	.06	43.2	.22	46.6	.09
28	44.3	.09	42.9	.15	44.6	.17	49.3	.06	42.7	.25	46.1	.11
27	43.7	.11	42.0	.20	44.1	.18	48.4	.07	42.1	.25	45.5	.13
26	43.1	.17	41.0	.25	43.6	.20	47.6	.07	41.5	.24	45.0	.17
25	42.3	.18	39.9	.29	42.9	.22	46.8	.07	40.9	.25	44.4	.19
24	41.4	.20	38.9	.35	42.2	.25	45.9	.09	40.2	.26	43.9	.27
23	40.4	.21	37.7	.33	41.4	.27	44.9	.10	39.5	.30	43.2	.31
22	39.4	.33	36.4	.30	40.5	.30	44.0	.08	38.7	.31	42.3	.34
21	38.1	.31	35.0	.31	39.7	.40	43.0	.13	37.9	.32	41.3	.37
20	36.7	.32	33.4	.30	38.6	.36	41.7	.15	36.9	.34	40.3	.42
19	35.3	.38	31.8	.36	37.5	.39	40.2	.18	35.8	.33	39.2	.42
18	33.7	.41	30.2	.51	36.4	.38	38.6	.19	34.6	.39	38.0	.41
17	32.1	.52	28.4	.67	35.2	.38	36.7	.13	33.3	.44	36.6	.36
16	30.3	.58	26.6	.90	33.7	.46	34.6	.22	31.8	.50	34.9	.35
15	28.1	.65	24.5	.98	31.9	.51	32.3	.30	30.2	.58	33.1	.43
14	25.8	.75	22.3	1.11	30.1	.77	30.1	.39	28.1	.67	31.0	.53
13	23.4	.88	20.2	1.16	27.6	.86	27.6	.40	25.7	.76	28.7	.64
12	21.3	.90	18.2	1.00	24.8	.89	25.0	.49	22.8	.75	26.2	.77
11	19.2	.87	16.2	.84	21.9	.91	22.4	.68	20.0	.81	23.[illegible]	1.01
10	17.2	.73	14.7	.67	18.9	.85	19.8	.77	17.0	.56	20.3	1.17
9	15.4	.53	13.1	.56	16.2	.66	17.4	.61	14.8	.39	17.5	1.06
8	13.6	.38	11.6	.52	14.3	.43	15.2	.48	12.7	.28	15.3	.82
7	12.1	.36	10.3	.54	12.4	.34	13.1	.41	11.0	.30	13.5	.70
6	10.3	.37	8.9	.57	10.8	.32	11.3	.47	9.[illegible]	.48	11.8	.61
5	8.6	.48	7.4	.47	9.0	.47	9.6	.56	7.6	.63	10.3	.70
4	7.1	.71	6.1	.41	7.3	.69	7.4	.77	6.1	.51	8.6	.69
3	5.6	.70	4.8	.41	5.7	.64	5.4	.67	4.[illegible]	.44	6.8	.63
2	4.2	.65	3.6	.54	4.2	.54	3.5	1.14	3.6	.51	5.0	.47

TABLE 2080. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE VOCABULARY SUBTESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, WORD KNOWLEDGE SUBTEST

PROCEDURE 2, EQUIPERCENTILE

	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY		CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY		ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY		STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)		SRA (71 ED.) BLUE FORM E VOCABULARY		SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
1	2.7	.63	2.4	.71	2.7	.58	1.5	1.10	2.4	.66	3.2	.29
0	1.2	.56	1.1	.68	1.2	.56	.0	.25	1.1	.40	1.4	.30

TABLE 2081. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE VOCABULARY SUBTESTS TO THE MAT (70 ED.) ELEMENTARY, FORM F, WORD KNOWLEDGE SUBTEST

PROCEDURE 3, LINEAR

	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY		CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY		ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY		STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)		SRA (71 ED.) BLUE FORM E VOCABULARY		SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
42									57.9	.48		
41									56.7	.47		
40	59.5	.47	57.9	.55					55.6	.46		
39	58.1	.47	56.5	.52					54.4	.49		
38	56.7	.43	55.2	.54	57.8	.66			53.3	.47	63.3	.77
37	55.4	.42	53.8	.51	56.5	.65			52.2	.51	61.8	.75
36	54.0	.41	52.5	.54	55.1	.62			51.0	.53	60.4	.73
35	52.7	.41	51.2	.57	53.8	.62			49.9	.53	58.9	.68
34	51.3	.46	49.8	.57	52.5	.63			48.8	.55	57.5	.68
33	50.0	.44	48.5	.65	51.1	.58			47.6	.58	56.0	.65
32	48.6	.50	47.1	.63	49.8	.59			46.5	.61	54.5	.64
31	47.3	.51	45.8	.69	48.5	.61			45.3	.63	53.1	.64
30	45.9	.55	44.5	.77	47.2	.63	58.0	.38	44.2	.67	51.6	.64
29	44.6	.58	43.1	.78	45.8	.63	56.0	.35	43.1	.72	50.2	.64
28	43.2	.65	41.8	.84	44.5	.65	54.1	.37	41.9	.73	48.7	.64
27	41.9	.68	40.4	.91	43.2	.69	52.2	.40	40.8	.77	47.3	.65
26	40.5	.74	39.1	.93	41.8	.68	50.2	.41	39.6	.81	45.8	.65
25	39.2	.80	37.8	1.03	40.5	.71	48.3	.46	38.[illegible]	.85	44.4	.70
24	37.8	.84	36.4	1.07	39.2	.73	46.4	.52	37.4	.87	42.9	.75
23	36.5	.87	35.1	1.11	37.9	.81	44.5	.59	36.2	.91	41.4	.74
22	35.1	.93	33.7	1.19	36.5	.81	42.5	.64	35.1	.94	40.0	.78
21	33.7	1.02	32.4	1.26	35.2	.85	40.6	.68	33.9	.98	38.5	.80
20	32.4	1.05	31.1	1.29	33.9	.87	38.7	.74	32.8	1.03	37.1	.85
19	31.0	1.13	29.7	1.37	32.6	.93	36.7	.81	31.7	1.04	35.6	.88
18	29.7	1.15	28.4	1.43	31.2	.95	34.8	.88	30.5	1.10	34.2	.92
17	28.3	1.25	27.0	1.49	29.9	.99	32.9	.91	29.4	1.13	32.7	.97
16	27.0	1.26	25.7	1.56	28.6	1.05	30.9	.99	28.2	1.18	31.3	1.00
15	25.6	1.33	24.4	1.63	27.2	1.08	29.0	1.06	27.1	1.23	29.8	1.06
14	24.3	1.38	23.0	1.68	25.9	1.11	27.1	1.13	26.0	1.26	28.3	1.11
13	22.9	1.44	21.7	1.76	24.6	1.16	25.1	1.22	24.8	1.30	26.9	1.16
12	21.6	1.47	20.3	1.80	23.3	1.21	23.2	1.25	23.7	1.34	25.4	1.18
11	20.2	1.57	19.0	1.87	21.9	1.25	21.3	1.33	22.6	1.37	24.0	1.26
10	18.9	1.62	17.7	1.93	20.6	1.28	19.4	1.40	21.4	1.40	22.5	1.32
9	17.5	1.69	16.3	2.03	19.3	1.33	17.4	1.47	20.3	1.45	21.1	1.35
8	16.2	1.73	15.0	2.07	17.9	1.37	15.5	1.54	19.1	1.51	19.6	1.40
7	14.8	1.78	13.6	2.13	16.6	1.42	13.6	1.58	18.0	1.53	18.2	1.45
6	13.5	1.85	12.3	2.22	15.3	1.46	11.6	1.66	16.9	1.59	16.7	1.49
5	12.1	1.90	11.0	2.28	14.0	1.51	9.7	1.74	15.7	1.62	15.2	1.57
4	10.8	1.95	9.6	2.31	12.6	1.55	7.8	1.79	14.6	1.66	13.8	1.61
3	9.4	2.04	8.3	2.41	11.3	1.61	5.8	1.88	13.4	1.70	12.3	1.67
2	8.0	2.10	6.9	2.47	10.0	1.64	3.9	1.95	12.3	1.75	10.9	1.71

TABLE 2081. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE VOCABULARY SUBTESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, WORD KNOWLEDGE SUBTEST

PROCEDURE 3. LINEAR

	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY		CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY		ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY		STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)		SRA (71 ED.) BLUE FORM E VOCABULARY		SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
1	6.7	2.13	5.6	2.54	8.6	1.71	2.0	2.01	11.2	1.80	9.4	1.76
0	5.3	2.22	4.3	2.61	7.3	1.74	.0	2.09	10.0	1.84	8.0	1.81

TABLE 2082. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE VOCABULARY SUBTESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, WORD KNOWLEDGE SUBTEST

PROCEDURE 3, EQUIPERCENTILE

	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY		CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY		ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY		STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)		SRA (71 ED.) BLUE FORM E VOCABULARY		SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
42									50.3	.08		
41									49.5	.15		
40	50.3	.06	50.3	.07					48.9	.16		
39	49.9	.14	50.0	.09					48.3	.17		
38	49.4	.10	49.4	.11	50.3	.04			47.8	.21	50.4	.00
37	48.8	.13	48.8	.15	49.8	.12			47.2	.24	50.2	.03
36	48.2	.15	48.2	.18	49.1	.12			46.7	.23	50.0	.14
35	47.8	.13	47.6	.18	48.4	.14			46.3	.28	49.5	.15
34	47.2	.18	47.0	.22	47.8	.15			45.8	.28	49.0	.17
33	46.7	.18	46.4	.27	47.2	.20			45.3	.33	48.6	.15
32	46.2	.18	45.7	.30	46.6	.24			44.8	.35	48.[illegible]	.17
31	45.7	.19	45.0	.38	46.0	.27			44.3	.36	47.[illegible]	.18
30	45.1	.26	44.3	.42	45.3	.28	50.3	.00	43.8	.38	47.2	.19
29	44.5	.29	43.6	.50	44.7	.34	49.8	.11	43.4	.44	46.7	.19
28	43.9	.31	42.8	.64	44.1	.39	49.0	.11	42.9	.47	46.2	.22
27	43.2	.34	41.9	.78	43.4	.41	48.2	.12	4[illegible].3	.53	45.7	.27
26	42.3	.44	40.9	.88	42.7	.47	47.4	.16	4[illegible].8	.56	45.1	.33
25	41.4	.55	39.9	.99	42.0	.56	46.5	.19	41.[illegible]	.63	44.4	.37
24	40.5	.62	38.7	1.11	41.2	.63	45.6	.25	40.6	.66	43.8	.43
23	39.4	.74	37.6	1.26	40.3	.69	44.5	.30	40.[illegible]	.72	43.0	.49
22	38.2	.90	36.4	1.43	39.5	.78	43.4	.41	39.3	.80	42.2	.61
21	36.9	1.08	35.1	1.62	38.6	.84	42.1	.52	38.5	.88	41.3	.70
20	35.5	1.27	33.6	1.77	37.5	.89	40.5	.69	37.5	.95	40.3	.81
19	33.9	1.50	32.1	1.99	36.3	.98	38.8	.80	36.6	1.06	39.1	.88
18	32.4	1.65	30.3	2.18	35.1	1.09	36.9	.97	35.5	1.16	37.8	.98
17	30.5	1.87	28.6	2.37	33.6	1.20	34.7	1.13	34.3	1.30	36.4	1.06
16	28.4	2.14	26.7	2.42	32.1	1.38	32.4	1.35	32.9	1.47	34.9	1.17
15	26.3	2.27	24.7	2.42	30.2	1.55	30.0	1.56	31.3	1.65	33.2	1.27
14	24.1	2.32	22.8	2.37	28.1	1.68	27.4	1.74	29.3	1.88	31.3	1.46
13	21.9	2.26	20.7	2.28	25.8	1.73	24.7	1.82	26.8	2.02	29.0	1.66
12	19.8	2.19	18.7	2.16	23.3	1.73	22.0	1.88	23.9	2.05	26.5	1.76
11	17.9	1.93	16.8	1.93	20.5	1.64	19.6	1.79	21.0	1.96	23.6	1.80
10	16.0	1.63	15.2	1.66	18.0	1.39	17.5	1.56	18.3	1.72	20.9	1.74
9	14.5	1.30	13.7	1.50	15.8	1.12	15.5	1.25	15.8	1.33	18.4	1.58
8	13.0	1.08	12.2	1.35	13.9	.86	13.8	1.03	13.7	1.01	16.0	1.36
7	11.4	.96	10.8	1.28	12.1	.70	12.2	.87	11.7	.89	14.2	1.16
6	9.9	.88	9.2	1.17	10.2	.73	10.6	.88	10.0	.81	12.4	1.01
5	8.3	.69	7.7	.97	8.4	.59	9.0	.78	8.0	.74	10.8	1.01
4	6.8	.53	6.3	.97	6.9	.53	7.3	.65	6.5	.52	9.1	.97
3	5.2	.53	4.8	1.24	5.3	.57	5.3	.73	4.9	.62	7.3	.82
2	3.6	.69	3.3	1.55	3.7	.65	3.0	.76	3.4	.68	5.3	.75

TABLE 2082. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE VOCABULARY SUBTESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, WORD KNOWLEDGE SUBTEST

PROCEDURE 3, EQUIPERCENTILE

	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY		CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY		ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY		STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)		SRA (71 ED.) BLUE FORM E VOCABULARY		SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
1	1.9	.89	1.8	1.20	2.0	.78	.7	.88	1.8	.84	3.0	.77
0	.3	.83	.3	.93	.3	.94	.0	.14	.3	.93	.7	.89

TABLE 2083. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE VOCABULARY SUBTESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, WORD KNOWLEDGE SUBTEST

AVERAGE OF PROCEDURES 1 AND 2, LINEAR

	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY		CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY		ITBS (71 ED.) LEVEL 0 FORM 5 VOCABULARY		STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)		SRA (71 ED.) BLUE FORM E VOCABULARY		SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
42									[illegible]	.42		
41									57.1	.39		
40	60.8	.54	58.1	.61					55.9	.34		
39	59.5	.50	56.8	.60					54.8	.35		
38	58.1	.47	55.4	.53	59.0	.57			53.6	.28	64.0	.78
37	56.8	.43	54.0	.43	57.7	.53			52.4	.27	62.5	.73
36	55.4	.37	52.7	.42	56.3	.46			51.2	.22	61.0	.68
35	54.0	.30	51.3	.33	55.0	.42			50.0	.17	59.5	.59
34	52.7	.26	50.0	.30	53.6	.38			48.8	.15	58.0	.56
33	51.3	.23	48.6	.26	52.3	.33			47.6	.12	56.5	.49
32	49.9	.20	47.2	.19	50.9	.29			46.4	.10	55.1	.49
31	48.6	.18	45.9	.18	49.6	.26			45.2	.11	[illegible]	.43
30	47.2	.13	44.5	.15	48.3	.26	59.3	.43	44.1	.17	52.1	.40
29	45.9	.14	43.2	.20	46.9	.22	57.4	.40	42.9	.17	50.6	.35
28	44.5	.12	41.8	.19	45.6	.24	55.5	.36	41.7	.20	49.1	.32
27	43.1	.15	[illegible]	.20	44.2	.22	53.5	.29	40.5	.24	47.6	.27
26	41.7	.19	39.1	.27	42.9	.25	51.6	.24	[illegible]	.29	46.1	.28
25	40.4	.20	37.7	.29	41.5	.26	49.7	.19	[illegible]	.29	44.6	.27
24	39.0	.27	36.3	.36	40.2	.30	47.7	.13	[illegible]	.33	43.1	.29
23	37.7	.29	35.0	.42	38.9	.34	45.8	.11	35.8	.39	41.6	.29
22	36.3	.36	33.6	.47	37.5	.38	43.9	.13	[illegible]	.43	40.1	.35
21	34.9	.41	32.3	.53	36.1	.42	41.9	.14	33.4	.46	38.6	.39
20	33.6	.44	30.9	.56	34.8	.47	40.0	.18	[illegible]	.49	37.2	.41
19	32.2	.48	29.5	.64	33.4	.51	38.0	.26	31.0	.53	35.7	.47
18	30.8	.54	28.2	.70	32.1	.56	36.1	.30	29.8	.58	34.2	.52
17	29.5	.57	26.8	.73	30.8	.58	34.1	.37	28.7	.62	32.7	.55
16	28.1	.63	25.5	.79	29.4	.66	32.2	.38	27.5	.65	31.2	.62
15	26.8	.66	24.1	.86	28.1	.70	30.3	.44	26.3	.70	29.7	.66
14	25.4	.69	22.7	.91	26.7	.75	28.3	.52	25.1	.73	28.2	.73
13	24.0	.76	21.4	.96	25.4	.79	26.4	.57	24.0	.76	26.7	.78
12	22.6	.83	20.0	1.04	24.0	.88	24.5	.61	22.8	.81	25.3	.84
11	[illegible]	.85	18.7	1.09	22.7	.89	22.5	.72	21.6	.85	23.8	.88
10	19.9	.89	17.3	1.13	21.3	.95	20.6	.76	20.4	.90	22.3	.95
9	18.6	.95	15.9	1.19	20.0	.99	18.7	.79	19.2	.93	20.8	1.00
8	17.2	.98	14.6	1.26	18.6	1.05	16.7	.87	18.0	.97	19.3	1.04
7	15.9	1.04	13.2	1.32	17.3	1.09	14.8	.94	16.8	1.04	17.8	1.09
6	14.5	1.10	11.9	1.38	15.9	1.16	12.8	1.01	15.6	1.09	16.3	1.16
5	13.1	1.15	10.5	1.42	14.6	1.20	10.9	1.05	14.5	1.13	14.8	1.24
4	11.7	1.19	9.1	1.51	13.3	1.25	9.0	1.10	13.3	1.13	13.3	1.29
3	10.4	1.22	7.8	1.52	11.9	1.30	7.0	1.19	12.1	1.18	11.9	1.32
2	9.1	1.27	6.4	1.61	10.6	1.36	5.1	1.21	10.9	1.21	10.4	1.38

TABLE 2083. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE VOCABULARY SUBTESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, WORD KNOWLEDGE SUBTEST

AVERAGE OF PROCEDURES 1 AND 2, LINEAR

	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY		CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY		ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY		STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)		SRA (71 ED.) BLUE FORM E VOCABULARY		SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
1	7.7	1.33	5.1	1.67	9.2	1.40	3.2	1.27	9.8	1.25	8.9	1.46
0	6.3	1.38	3.7	1.72	7.9	1.46	1.2	1.35	8.6	1.27	7.4	1.50

ESTIMATES OF ERROR IN EQUATING THE VOCABULARY SUBTESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, WORD KNOWLEDGE SUBTEST

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE

	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY		CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY		ITBS (71 ED.) LEVEL 10 FORM 5 VOCABULARY		STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)		SRA (71 ED.) BLUE FORM E VOCABULARY		SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
42									50.3	.04		
41									49.6	.09		
40	50.4	.05	50.4	.06					49.0	.09		
39	50.1	.06	50.1	.07					48.3	.09		
38	49.5	.11	49.4	.09	50.3	.06			47.8	.11	50.4	.00
37	49.0	.09	48.8	.09	50.0	.09			47.3	.11	50.2	.08
36	48.5	.10	48.2	.08	49.3	.09			46.7	.10	50.0	.11
35	48.0	.07	47.6	.09	48.6	.14			46.3	.10	49.6	.10
34	47.6	.07	47.0	.09	48.0	.11			45.8	.10	49.2	.09
33	47.1	.06	46.4	.13	47.5	.13			45.3	.11	48.7	.09
32	46.7	.07	45.7	.10	46.9	.09			44.8	.09	48.3	.07
31	46.2	.08	45.0	.09	46.4	.11			44.3	.11	47.[illegible]	.08
30	45.7	.10	44.4	.13	45.8	.11	50.3	.06	43.8	.10	47.5	.08
29	45.1	.06	43.6	.10	45.3	.12	50.0	.04	43.3	.11	46.8	.09
28	44.5	.09	42.8	.11	44.7	.12	49.3	.07	42.7	.14	46.3	.11
27	43.9	.09	41.9	.15	44.1	.14	48.5	.06	42.1	.14	45.7	.10
26	43.2	.09	40.9	.21	43.5	.15	47.7	.09	4[illegible].6	.18	45.2	.14
25	42.4	.13	39.8	.24	42.8	15	46.9	.09	41.[illegible]	.21	44.6	.16
24	41.5	.13	38.8	.32	42.0	.19	46.1	.08	40.3	.17	43.9	.19
23	40.6	.17	37.6	.27	41.3	.24	45.2	.09	39.6	.21	43.2	.24
22	39.6	.25	36.4	.30	40.4	.25	44.1	.09	38.[illegible]	.24	42.3	.25
21	38.4	.30	35.1	.36	39.6	.34	43.0	.09	38.0	.26	41.4	.33
20	37.1	.35	33.6	.38	38.6	.32	41.7	.15	37.0	.28	40.3	.35
19	35.8	.42	32.0	.44	37.5	.34	40.2	.19	36.0	.28	39.2	.36
18	34.3	.45	30.4	.58	36.3	.38	38.6	.25	34.9	.33	38.0	.39
17	32.7	.54	28.6	.72	35.1	.41	36.6	.21	33.6	.36	36.6	.41
16	30.8	.62	26.7	.87	33.5	.50	34.5	.23	32.1	.42	35.1	.42
15	28.6	.78	24.6	1.01	31.7	.63	32.1	.38	30.5	.58	33.4	.48
14	26.3	.96	22.4	1.12	29.8	.84	29.6	.52	28.3	.69	31.4	.59
13	23.8	1.17	20.2	1.18	27.4	.97	27.0	.60	25.9	.85	29.1	.77
12	21.5	1.14	18.2	1.11	24.6	1.10	24.2	.77	23.0	1.03	26.5	.94
11	19.2	1.09	16.3	1.01	21.6	1.15	21.4	.89	20.0	1.09	23.7	1.17
10	17.1	.93	14.8	.89	18.7	1.04	18.9	.85	17.2	.35	20.6	1.19
9	15.2	.76	13.2	.83	16.1	.80	16.6	.72	14.9	.69	17.9	1.10
8	13.5	.66	11.7	.75	14.2	.64	14.7	.60	12.8	.61	15.6	.92
7	11.9	.63	10.3	.72	12.2	.58	12.8	.55	11.0	.58	13.8	.88
6	10.2	.61	8.8	.59	10.4	.59	11.0	.70	9.1	.68	12.0	.87
5	8.4	.56	7.4	.47	8.5	.54	9.3	.66	7.5	.58	10.4	.93
4	6.9	.44	6.0	.44	7.0	.59	7.5	.61	6.2	.41	8.6	.92
3	5.2	.48	4.1	.42	5.4	.58	5.8	.51	4.8	.44	6.9	.73
2	3.5	.58	2.2	.47	3.9	.51	3.6	.58	3.4	.49	5.1	.56

TABLE 2084. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE VOCABULARY SUBTESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, WORD KNOWLEDGE SUBTEST

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE

	CAT (70 ED.) LEVEL 3 FORM A VOCABULARY		CTBS (68 ED.) LEVEL 2 FORM Q VOCABULARY		ITBS (71 ED. LEVEL 10 FORM 5 VOCABULARY		STEP-II (69 ED.) LEVEL 4 FORM A PART 1 (VOCAB.)		SRA (71 ED.) BLUE FORM E VOCABULARY		SAT (64 ED.) INTERMEDIATE I FORM W WORD MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
1	1.7	.74	1.2	.35	2.3	.56	1.2	.76	2.1	.55	3.1	.47
0	.6	.57	.6	.37	.8	.51	.0	.60	.7	.51	1.0	.51

ESTIMATES OF ERROR IN EQUATING THE COMPREHENSION SUBTESTS TO THE MAT (70 ED.) ELEMENTARY, FORM F, READING (COMPREHENSION) SUBTEST

PROCEDURE 1, LINEAR

	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION		CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION		ITBS (71 ED.) LEVEL 0 FORM 5 COMPREHENSION		STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)		SRA (71 ED.) BLUE FORM E READING (COMPR.)		SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
68					54.4	.46						
67					53.7	.48						
66					52.9	.45						
65					52.2	.45						
64					51.4	.41						
63					50.7	.41						
62					49.9	.37						
61					49.1	.39						
60					48.4	.36					54.7	.53
59					47.6	.35					53.8	.53
58					46.9	.33					53.0	.50
57					46.1	.31					52.[illegible]	.47
56					45.4	.31					51.[illegible]	.47
55					44.6	.30					50.3	.42
54					43.9	.30					49.4	.42
53					43.1	.27					48.5	.39
52					42.4	.28					47.6	.36
51					41.6	.24					46.7	.37
50					40.9	.26					45.9	.32
49					40.1	.24					45.0	.32
48					39.3	.25			55.[illegible]	.48	44.1	.29
47					38.6	.24			54.2	.42	43.2	.28
46					37.8	.23			53.1	.39	42.3	.27
45			48.6	.29	37.1	.23			52.0	.36	41.4	.25
44			47.5	.28	36.3	.23			50.9	.34	40.5	.25
43			46.5	.26	35.6	.22			49.8	.32	39.7	.21
42	53.6	.51	45.4	.26	34.8	.22			48.7	.30	38.8	.20
41	52.3	.47	44.4	.26	34.1	.23			47.6	.30	37.9	.22
40	51.0	.45	43.3	.25	33.3	.23			46.5	.28	37.0	.20
39	49.7	.41	42.3	.22	32.6	.23			45.4	.26	36.1	.20
38	48.4	.39	41.3	.23	31.8	.24			44.2	.19	35.2	.20
37	47.1	.35	40.2	.22	31.1	.24			43.1	.17	34.3	.20
36	45.8	.32	39.2	.20	30.3	.25			42.0	.15	33.5	.17
35	44.5	.30	38.1	.20	29.5	.27			40.9	.14	32.6	.19
34	43.2	.27	37.1	.18	28.8	.27			39.8	.13	31.7	.20
33	41.9	.26	36.0	.20	28.0	.29			38.7	.15	30.8	.23
32	40.6	.22	35.0	.17	27.3	.29			37.6	.15	29.9	.25
31	39.3	.21	33.9	.20	26.5	.29			36.5	.17	29.0	.27
30	38.0	.15	32.9	.17	25.8	.31	53.5	.39	35.4	.18	28.1	.28
29	36.7	.15	31.8	.21	25.0	.33	51.9	.36	34.3	.18	27.3	.28
28	35.4	.13	30.8	.19	24.3	.32	50.3	.34	33.1	.19	26.4	.29

TABLE 2085. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE COMPREHENSION SUBTESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, READING (COMPREHENSION) SUBTEST

PROCEDURE 1, LINEAR

	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION		CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION		ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION		STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)		SRA (71 ED.) BLUE FORM E READING (COMPR.)		SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERRUR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
27	34.1	.15	29.7	.22	23.5	.35	48.6	.28	32.0	.21	25.5	.31
26	32.8	.15	28.7	.23	22.8	.37	47.0	.27	30.9	.23	24.6	.33
25	31.5	.16	27.6	.25	22.0	.38	45.4	.23	29.8	.27	23.7	[illegible]
24	30.2	.19	26.6	.25	21.2	.39	43.8	.20	28.7	.27	22.8	.37
23	28.9	.22	25.5	.27	20.5	.41	42.2	.15	27.6	.33	21.9	.39
22	27.6	.22	24.5	.27	19.7	.42	40.5	.16	26.5	.33	21.1	.39
21	26.3	.27	23.5	.29	19.0	.45	38.9	.13	25.4	.36	20.2	.43
20	25.0	.28	22.4	.31	18.2	.46	37.3	.12	24.3	.38	19.3	.45
19	23.7	.32	21.4	.30	17.5	.45	35.7	.14	23.2	.41	18.4	.47
18	22.4	.34	20.3	.33	16.7	.46	34.0	.17	22.0	.44	17.5	.49
17	21.1	.39	19.3	.35	16.0	.49	32.4	.19	20.9	.45	16.6	.49
16	19.8	.40	18.2	.38	15.2	.50	30.8	.20	19.8	.49	15.7	.54
15	18.5	.43	17.2	.38	14.5	.52	29.2	.24	18.7	.50	14.9	.57
14	17.2	.46	16.1	.40	13.7	.55	27.5	.28	17.6	.56	14.0	.57
13	15.9	.51	15.1	.43	13.0	.53	25.9	.32	16.5	.56	13.1	.61
12	14.6	.52	14.0	.45	12.2	.57	24.3	.35	15.4	.61	12.2	.61
11	13.3	.57	13.0	.45	11.4	.58	22.7	.37	14.3	.61	11.3	.64
10	12.0	.58	11.9	.45	10.7	.60	21.0	.43	13.2	.64	10.4	.69
9	10.6	.65	10.9	.48	9.9	.62	19.4	.43	12.0	.69	9.5	.69
8	9.3	.68	9.8	.50	9.2	.65	17.8	.49	10.9	.70	8.7	.71
7	8.0	.71	8.8	.50	8.4	.62	16.2	.54	9.8	.74	7.8	.73
6	6.7	.73	7.8	.52	7.7	.65	14.5	.59	8.7	.76	6.9	.75
5	5.4	.79	6.7	.54	6.9	.67	12.9	.61	7.6	.80	6.0	.75
4	4.1	.80	5.7	.57	6.2	.69	11.3	.66	6.5	.81	5.1	.81
3	2.8	.84	4.6	.57	5.4	.73	9.7	.65	5.4	.82	4.2	.83
2	1.5	.85	3.6	.59	4.7	.73	8.0	.75	4.3	.84	3.3	.83
1	.2	.91	2.5	.63	3.9	.73	6.4	.77	3.2	.88	2.5	.84
0	- 1.1	.93	1.5	.63	3.2	.74	4.8	.79	2.1	.92	1.6	.86

TABLE 2086. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE COMPREHENSION SUBTESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, READING (COMPREHENSION) SUBTEST

PROCEDURE 1, EQUIPERCENTILE

	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION		CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION		ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION		STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)		SRA (71 ED.) BLUE FORM E READING (COMPR.)		SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
68					45.4	.00						
67					45.4	.13						
66					45.1	.15						
65					44.8	.18						
64					44.6	.15						
63					44.3	.18						
62					44.0	.22						
61					43.7	.25						
60					43.3	.28					45.4	.00
59					42.9	.33					45.4	.11
58					42.6	.24					45.3	.24
57					42.2	.24					44.8	.17
56					41.9	.17					44.4	.16
55					41.5	.14					43.9	.21
54					41.1	.12					43.6	.15
53					40.7	.14					43.2	.12
52					40.3	.17					42.9	.15
51					39.9	.18					42.5	.18
50					39.5	.20					42.1	.19
49					39.1	.19					41.7	.21
48					38.6	.23			45.3	.06	41.3	.19
47					38.2	.22			45.0	.19	40.9	.18
46					37.8	.21			44.6	.17	40.5	.18
45			45.2	.05	37.4	.25			44.3	.13	40.1	.19
44			44.7	.09	36.8	.27			43.9	.13	39.6	.23
43			44.2	.13	36.3	.25			43.3	.12	39.1	[illegible]
42	45.2	.07	43.3	.18	35.7	.29			42.8	.10	38.6	.17
41	44.8	.11	42.6	.16	35.0	.28			42.3	.11	38.1	.17
40	44.2	.15	41.9	.17	34.4	.27			41.9	.11	37.6	.21
39	43.7	.22	41.1	.16	33.8	.25			41.4	.12	37.0	.23
38	43.1	.19	40.4	.15	33.3	.27			41.0	.13	36.3	.23
37	42.6	.20	39.7	.16	32.7	.25			40.5	.13	35.6	.23
36	42.1	.17	38.8	.20	32.0	.24			40.0	.15	34.7	.22
35	41.5	.17	38.0	.20	31.4	.28			39.4	.19	33.9	.17
34	40.9	.19	37.2	.25	30.8	.30			38.9	.12	33.1	[illegible]
33	40.3	.17	36.3	.31	30.1	.30			38.3	.14	32.3	.15
32	39.7	.18	35.3	.34	29.3	.33			37.7	.15	31.5	.18
31	39.0	.19	34.3	.37	28.6	.31			37.1	.21	30.7	.19
30	38.3	.19	33.4	.35	27.8	.34	45.2	.05	36.4	.20	29.9	.24
29	37.6	.21	32.4	.32	27.0	.32	[illegible]	.07	[illegible]	.17	29.0	.29
28	36.7	.22	31.4	.29	26.2	.34	43.7	.17	34.8	.20	28.0	.39

ESTIMATES OF ERROR IN EQUATING THE COMPREHENSION SUBTESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, READING (COMPREHENSION) SUBTEST

PROCEDURE 1, EQUIPERCENTILE

	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION		CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION		ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION		STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)		SRA (71 ED.) BLUE FORM E READING (COMPR.)		SAT (64 ED.) INTERMEDIATE I FORM X PARAGRAPH MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
27	35.8	.27	30.5	.28	25.3	.23	42.9	.16	34.0	.25	27.0	.44
26	34.6	.22	29.5	.26	24.5	.29	42.1	.15	33.2	.33	26.0	.47
25	33.4	.22	28.5	.30	23.7	.35	41.4	.13	32.2	.29	24.9	.50
24	31.9	.15	27.5	.32	22.9	.37	40.7	.14	31.[illegible]	.32	23.9	.47
23	30.5	.15	26.4	.33	21.9	.39	40.0	.14	30.2	.35	22.9	.50
22	28.8	.20	25.3	.31	21.0	.41	39.3	.14	29.0	.38	21.7	.45
21	27.2	.30	24.3	.30	19.8	.43	38.5	.16	27.7	.45	20.7	.43
20	25.6	.34	23.2	.31	18.5	.46	37.7	.15	26.2	.48	19.6	.41
19	24.0	.41	22.2	.28	17.1	.47	36.8	.19	24.7	.51	18.4	.45
18	22.4	.49	21.1	.27	15.8	.49	35.6	.20	23.0	.47	17.1	.49
17	20.8	.54	20.0	.26	14.5	.54	34.4	.21	21.5	.46	15.9	.52
16	19.4	.54	18.8	.22	13.3	.55	33.1	.20	20.0	.49	14.6	.57
15	17.9	.55	17.4	.30	12.1	.51	31.7	.25	18.4	.50	13.3	.63
14	16.3	.62	16.0	.34	11.0	.50	30.3	.19	16.7	.52	12.2	.60
13	14.9	.62	14.6	.38	9.9	.51	28.3	.39	15.0	.55	11.3	.61
12	13.5	.60	13.2	.40	8.8	.55	26.3	.39	13.5	.52	10.4	.58
11	12.1	.57	11.9	.43	8.0	.58	23.8	.42	12.2	.54	9.5	.52
10	10.8	.56	10.7	.43	7.2	.76	21.4	.49	10.9	.58	8.7	.48
9	9.6	.49	9.4	.38	6.4	.78	18.9	.60	9.8	.58	7.8	.54
8	8.3	.48	8.1	.41	5.8	.81	16.6	.75	8.6	.68	6.9	.58
7	7.1	.40	6.8	.62	5.2	.72	14.3	.77	7.5	.77	6.2	.62
6	5.9	.39	5.5	.56	4.4	.66	12.3	.73	6.4	.86	5.5	.61
5	4.7	.40	4.5	.37	3.7	.54	10.5	.67	5.3	.83	4.6	.56
4	3.8	.48	3.6	.30	2.9	.48	8.7	.59	4.1	.77	3.7	.45
3	2.8	.75	2.7	.33	2.1	.50	6.9	.36	2.8	.71	2.8	.39
2	1.9	.99	1.8	.41	1.4	.47	4.7	.20	1.5	.72	1.8	.44
1	.9	.68	.9	.56	.6	.58	2.6	.43	.2	.59	.9	.50
0	.0	.45	.0	.60	.0	.57	.5	.56	.0	.04	.0	.62

TABLE 2087. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE COMPREHENSION SUBTESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, READING (COMPREHENSION) SUBTEST

PROCEDURE 2, LINEAR

	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION		CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION		ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION		STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)		SRA (71 ED.) BLUE FORM E READING (COMPR.)		SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
68					54.7	.61						
67					54.0	.59						
66					53.2	.58						
65					52.4	.57						
64					51.7	.55						
63					50.9	.56						
62					50.1	.52						
61					49.4	.51						
60					48.6	.51					55.8	.46
59					47.8	.50					54.9	.45
58					47.1	.49					54.0	.44
57					46.3	.47					53.1	.44
56					45.6	.45					52.2	.42
55					44.8	.42					51.3	.39
54					44.0	.45					50.4	.39
53					43.3	.41					49.5	.38
52					42.5	.41					48.6	.35
51					41.7	.41					47.7	.35
50					41.0	.39					46.7	.33
49					40.2	.41					45.8	.34
48					39.4	.37			55.8	.61	44.9	.31
47					38.7	.37			54.6	.57	44.0	.31
46					37.9	.36			53.5	.57	43.1	.31
45			48.7	.30	37.1	.35			52.4	.55	42.2	.28
44			47.6	.27	36.4	.36			51.2	.56	41.3	.28
43			46.6	.27	35.6	.35			50.1	.53	40.4	.25
42	54.1	.44	45.5	.28	34.8	.34			49.0	.50	39.5	.24
41	52.8	.44	44.5	.27	34.1	.32			47.9	.50	38.5	.26
40	51.5	.41	43.4	.27	33.3	.33			46.7	.46	37.6	.26
39	50.2	.41	42.3	.24	32.5	.32			45.6	.43	36.7	.25
38	48.8	.40	41.3	.26	31.8	.33			44.5	.43	35.8	.25
37	47.5	.39	40.2	.24	31.0	.31			43.3	.42	34.9	.25
36	46.2	.37	39.2	.26	30.2	.30			42.2	.40	34.0	.25
35	44.9	.37	38.1	.26	29.5	.32			41.1	.38	33.1	.24
34	43.6	.35	37.0	.23	28.7	.31			40.0	.39	32.2	.24
33	42.3	.36	36.0	.26	27.9	.35			38.8	.39	31.3	.25
32	41.0	.34	34.9	.23	27.2	.31			37.7	.35	30.3	.25
31	39.6	.33	33.9	.25	26.4	.32			36.6	.33	29.4	.25
30	38.3	.31	32.8	.25	25.6	.33	53.1	.36	35.4	.35	28.5	.26
29	37.0	.30	31.7	.24	24.9	.32	[illegible]	.35	[illegible]	.33	27.6	.25
28	35.7	.29	30.7	.27	24.1	.34	49.8	.32	33.2	.32	26.7	.26

ESTIMATES OF ERROR IN EQUATING THE COMPREHENSION SUBTESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, READING (COMPREHENSION) SUBTEST

PROCEDURE 2, LINEAR

	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION		CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION		ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION		STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)		SRA (71 ED.) BLUE FORM E READING (COMPR.)		SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
27	34.4	.31	29.6	.24	23.4	.35	48.2	.31	32.1	.31	25.8	.28
26	33.1	.30	28.6	.26	22.6	.36	46.6	.30	30.[illegible]	.31	24.9	.25
25	31.8	.32	27.5	.23	21.8	.33	44.9	.28	29.8	.33	24.0	.29
24	30.5	.31	26.4	.27	21.1	.38	43.3	.26	28.7	.30	23.1	.31
23	29.1	.32	25.4	.28	20.3	.36	41.6	.22	27.5	.31	22.2	.33
22	27.8	.32	24.3	.26	19.5	.36	40.0	.23	26.4	.31	21.2	.31
21	26.5	.35	23.3	.29	18.8	.41	38.3	.20	25.3	.31	20.3	.34
20	2[illegible].2	.35	22.2	.25	18.0	.40	36.7	.20	24.2	.32	19.4	.34
19	23.[illegible]	.36	21.2	.29	17.2	.42	35.1	.21	23.0	.32	18.5	.34
18	22.6	.37	20.1	.27	16.5	.41	33.4	.18	21.9	.31	17.6	.35
17	21.3	.38	19.0	.29	15.7	.42	31.8	.18	20.8	.33	16.7	.37
16	20.0	.39	18.0	.31	14.9	.44	30.1	.21	19.7	.36	15.8	.38
15	18.6	.41	16.9	.29	14.2	.46	28.5	.22	18.5	.35	14.9	.42
14	17.3	.44	15.9	.32	13.4	.45	26.9	.23	17.4	.35	14.0	.44
13	16.0	.45	14.8	.32	12.6	.47	25.2	.24	16.3	.38	13.0	.45
12	14.7	.46	13.7	.33	11.9	.49	23.6	.26	15.1	.38	12.1	.43
11	13.4	.47	12.7	.34	11.1	.47	21.9	.25	14.0	.38	11.2	.46
10	12.1	.50	11.6	.33	10.3	.50	20.3	.29	12.9	.39	10.3	.46
9	10.8	.49	10.6	.36	9.6	.53	18.6	.31	11.8	.42	9.4	.47
8	9.4	.54	9.5	.37	8.8	.51	17.0	.34	10.6	.45	8.5	.50
7	8.1	.55	8.4	.37	8.0	.55	15.4	.38	9.5	.44	7.6	.52
6	6.8	.56	7.4	.37	7.3	.57	13.7	.36	8.4	.47	6.7	.53
5	5.5	.57	6.3	.38	6.5	.56	12.1	.40	7.2	.49	5.8	.56
4	4.2	.59	5.3	.40	5.7	.58	10.4	.43	6.1	.51	4.8	.57
3	2.9	.61	4.2	.41	5.0	.60	8.8	.47	5.0	.50	3.9	.58
2	1.6	.63	3.1	.42	4.2	.60	7.2	.49	3.9	.54	3.0	.59
1	.3	.66	2.1	.41	3.4	.62	5.5	.50	2.7	.53	2.1	.60
0	- 1.1	.68	1.0	.43	2.7	.65	3.9	.51	1.6	.56	1.2	.60

TABLE 2088. ANCHOR [illegible]ATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE COMPREHENSION SUBTESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, READING (COMPREHENSION) SUBTEST

PROCEDURE 2, EQUIPERCENTILE

	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION		CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION		ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION		STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)		SRA (71 ED.) BLUE FORM E READING (COMPR.)		SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
68					45.4	.00						
67					45.4	.00						
66					45.4	.11						
65					45.1	.15						
64					44.8	.13						
63					44.6	.15						
62					44.3	.15						
61					44.1	.24						
60					43.6	.23					45.4	.00
59					43.1	.26					45.1	.21
58					42.7	.27					44.9	.30
57					42.3	.28					44.7	.23
56					41.9	.29					44.4	.20
55					41.4	.31					44.2	.16
54					41.1	.28					43.9	.22
53					40.7	.26					43.3	.21
52					40.3	.26					42.8	.26
51					40.0	.22					42.4	.22
50					39.6	.27					42.1	.21
49					39.1	.26					41.7	.20
48					38.6	.28			45.3	.04	41.3	.16
47					38.1	.29			45.0	.08	41.0	.19
46					37.6	.26			44.6	.10	40.6	.22
45			45.2	.09	37.1	.26			44.2	.14	40.1	.18
44			44.7	.18	36.6	.24			43.8	.21	39.7	.18
43			44.1	.25	36.0	.24			43.1	.22	39.3	.18
42	45.2	.04	43.3	.28	35.5	.24			42.6	.21	38.8	.17
41	44.7	.13	42.6	.26	34.8	.27			42.1	.19	38.4	.19
40	44.1	.19	41.8	.24	34.2	.24			41.6	.18	37.9	.24
39	43.6	.25	41.1	.21	33.6	.25			41.2	.16	37.3	.23
38	43.1	.27	40.3	.16	33.0	.30			40.8	.17	36.7	.23
37	42.6	.27	39.5	.19	32.5	.34			40.3	.14	36.0	.25
36	42.1	.27	38.7	.21	31.9	.40			39.8	.14	35.4	.22
35	41.6	.23	38.0	.24	31.3	.45			39.3	.15	34.6	.25
34	41.1	.18	37.1	.24	30.6	.51			38.7	.13	33.8	.25
33	40.5	.19	36.2	.22	29.9	.54			38.1	.17	33.1	.25
32	39.8	.19	35.3	.21	29.1	.56			37.5	.21	32.3	.36
31	39.1	.23	34.3	.26	28.3	.57			37.0	.25	31.5	.44
30	38.3	.25	33.3	.35	27.6	.55	45.1	.06	36.4	.29	30.7	.53
29	37.5	.26	32.3	.51	26.8	.47	44.4	.14	35.7	.29	29.7	.57
28	36.7	.28	31.4	.64	26.0	.41	43.6	.26	35.0	.31	28.7	.62

TABLE 2088. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE COMPREHENSION SUBTESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, READING (COMPREHENSION) SUBTEST

PROCEDURE 2, EQUIPERCENTILE

	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION		CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION		ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION		STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)		SRA (71 ED.) BLUE FORM E READING (COMPR.)		SAT (64 ED.) INTERMEDIATE I FORM [illegible] PARAGRAPH MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
27	35.8	.30	30.4	.70	25.3	.36	42.7	.28	34.[illegible]	.37	27.6	.62
26	34.8	.30	29.3	.68	24.4	.39	41.9	.29	33.4	.44	26.4	.59
25	33.6	.35	28.2	.65	23.5	.41	41.2	.28	32.6	.52	25.3	.55
24	32.4	.44	27.1	.57	22.7	.43	40.4	.23	31.5	.52	24.2	.56
23	31.1	.59	26.0	.47	21.8	.41	39.7	.24	30.7	.52	23.0	.57
22	29.4	.62	24.9	.35	20.9	.40	38.9	.18	29.4	.55	21.9	.58
21	27.7	.64	23.8	.29	19.8	.42	38.0	.17	28.0	.56	20.7	.58
20	26.0	.61	22.8	.26	18.5	.48	37.2	.14	26.5	.53	19.6	.57
19	24.2	.58	21.7	.29	17.2	.52	36.2	.14	24.8	.48	18.4	.59
18	22.5	.57	20.7	.32	15.8	.45	35.1	.20	23.2	.46	17.1	.60
17	21.0	.57	19.6	.36	14.5	.40	33.9	.21	21.6	.38	15.9	.58
16	19.7	.56	18.4	.40	13.4	.41	32.5	.29	20.0	.36	14.8	.55
15	18.2	.53	17.1	.41	12.2	.45	31.1	.44	18.3	.36	13.6	.54
14	16.6	.57	15.7	.39	11.0	.44	29.3	.61	16.6	.44	12.5	.51
13	15.2	.55	14.4	.39	9.8	.36	27.2	.65	15.1	.45	11.5	.51
12	13.9	.58	13.3	.35	8.7	.32	25.1	.55	13.6	.48	10.4	.49
11	12.5	.50	12.1	.30	7.9	.28	22.8	.48	12.2	.44	9.6	.53
10	11.2	.45	10.8	.25	7.0	.31	20.4	.48	10.7	.33	8.6	.51
9	9.9	.37	9.7	.24	6.3	.37	17.9	.47	9.5	.31	7.8	.51
8	8.8	.36	8.4	.24	5.6	.54	15.6	.49	8.3	.29	7.0	.49
7	7.7	.45	7.4	.33	4.9	.84	13.6	.52	7.2	.19	6.4	.55
6	6.6	.57	6.5	.39	4.2	1.12	11.8	.40	6.3	.22	5.8	.65
5	5.5	.49	5.6	.53	3.5	1.41	9.9	.36	5.4	.29	4.9	.58
4	4.4	.4[illegible]	4.5	.60	2.7	1.35	8.3	.23	4.3	.41	3.9	.63
3	3.3	.54	3.4	.78	2.0	1.23	6.5	.26	3.2	.63	2.9	.78
2	2.2	.83	2.3	1.06	1.3	1.28	4.5	.54	2.2	.87	2.0	.95
1	1.1	1.13	1.2	1.09	.6	1.26	2.5	1.06	1.1	1.12	1.0	1.21
0	.0	1.39	.1	1.28	.0	1.29	.5	1.36	.0	1.37	.0	1.50

ESTIMATES OF ERROR IN EQUATING THE COMPREHENSION SUBTESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, READING (COMPREHENSION) SUBTEST

PROCEDURE 3, LINEAR

	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION		CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION		ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION		STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)		SRA (71 ED.) BLUE FORM E READING (COMPR.)		SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
68					54.3	.62						
67					53.5	.61						
66					52.8	.62						
65					52.0	.60						
64					51.3	.62						
63					50.5	.60						
62					49.7	.59						
61					49.0	.59						
60					48.2	.59					55.3	.63
59					47.5	.59					54.4	.61
58					46.7	.58					53.5	.61
57					45.9	.58					52.7	.61
56					45.2	.58					51.8	.[illegible]0
55					44.4	.57					50.9	.58
54					43.7	.59					50.0	.58
53					42.9	.58					49.1	.58
52					42.2	.59					48.2	.57
51					41.4	.58					47.3	.57
50					40.6	.57					46.4	.59
49					39.9	.59					45.5	.58
48					39.1	.58			55.8	.67	44.6	.55
47					38.4	.60			54.7	.66	43.7	.56
46					37.6	.58			53.6	.65	42.8	.55
45			48.8	.88	36.8	.59			52.5	.64	41.9	.55
44			47.8	.88	36.1	.60			51.4	.63	41.1	.57
43			46.7	.86	35.3	.60			50.3	.61	40.2	.57
42	52.9	.33	45.7	.87	34.6	.62			49.2	.60	39.3	.58
41	51.6	.33	44.6	.85	33.8	.61			48.1	.62	38.4	.56
40	50.3	.31	43.6	.87	33.0	.61			47.0	.61	37.5	.57
39	49.0	.30	42.5	.88	32.3	.63			45.9	.61	36.6	.57
38	47.7	.31	41.5	.89	31.5	.62			44.8	.61	35.7	.59
37	46.4	.32	40.4	.87	30.8	.64			43.6	.60	34.8	.60
36	45.1	.35	39.4	.88	30.0	.64			42.5	.60	33.9	.61
35	43.8	.35	38.3	.88	29.3	.66			41.4	.61	33.0	.61
34	42.5	.36	37.3	.91	28.5	.66			40.3	.62	32.1	.61
33	41.2	.36	36.2	.90	27.7	.66			39.2	.61	31.2	[illegible]
32	39.9	.41	35.2	.91	27.0	.67			38.1	.62	30.3	.61
31	38.6	.44	34.1	.89	26.2	.67			37.0	.64	29.5	.64
30	37.3	.44	33.1	.92	25.5	.70	52.[illegible]	.64	35.9	.62	28.6	.64
29	36.0	.47	32.0	.95	24.7	.70	50.9	.62	34.8	.64	27.7	.66
28	34.7	.50	31.0	.93	23.9	.70	49.[illegible]	.60	33.7	.65	26.8	.67

TABLE 2089. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE COMPREHENSION SUBTESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, READING (COMPREHENSION) SUBTEST

PROCEDURE 3, LINEAR

	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION		CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION		ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION		STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)		SRA (71 ED.) BLUE FORM E READING (COMPR.)		SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
27	33.4	.55	29.9	.96	23.2	.71	47.7	.57	32.6	.68	25.9	.68
26	32.1	.57	28.9	.94	22.4	.72	46.0	.55	31.5	.68	25.0	.70
25	30.8	.59	27.8	.97	21.7	.74	44.4	.56	30.4	.69	24.1	.70
24	29.5	.61	26.8	.99	20.9	.74	42.8	.55	29.2	.70	23.2	.72
23	28.2	.65	25.7	.99	20.2	.77	41.1	.56	28.1	.73	22.3	.74
22	26.9	.71	24.7	1.01	19.4	.77	39.5	.56	27.0	.73	21.4	.74
21	25.6	.73	23.7	1.02	18.6	.77	37.9	.57	25.9	.74	20.5	.77
20	24.3	.76	22.6	1.03	17.9	.79	36.3	.58	24.8	.76	19.6	.78
19	23.0	.79	21.6	1.05	17.1	.78	34.6	.58	23.7	.79	18.8	.77
18	21.7	.82	20.5	1.06	16.4	.81	33.0	.60	22.6	.80	17.9	.80
17	20.4	.85	19.5	1.07	15.6	.80	31.4	.64	21.5	.80	17.0	.80
16	19.1	.89	18.4	1.09	14.8	.83	29.7	.66	20.4	.86	16.1	.83
15	17.8	.94	17.4	1.11	14.1	.83	28.1	.68	19.3	.85	15.2	.84
14	16.5	.95	16.3	1.10	13.3	.84	26.5	.69	18.2	.85	14.3	.86
13	15.2	1.00	15.3	1.14	12.6	.85	24.8	.73	17.1	.89	13.4	.90
12	13.9	1.02	14.2	1.16	11.8	.86	23.2	.75	15.9	.92	12.5	.88
11	12.6	1.06	13.2	1.17	11.0	.87	21.6	.78	14.8	.95	11.6	.92
10	11.3	1.10	12.1	1.18	10.3	.91	20.0	.80	13.7	.95	10.7	.93
9	10.0	1.14	11.1	1.19	9.5	.91	18.3	.83	12.6	.99	9.8	.93
8	8.7	1.18	10.0	1.20	8.8	.91	16.7	.90	11.5	1.01	8.9	.96
7	7.4	1.20	9.0	1.24	8.0	.92	15.1	.90	10.4	1.00	8.0	.98
6	6.1	1.25	7.9	1.24	7.3	.95	13.4	.94	9.3	1.05	7.2	1.00
5	4.8	1.28	6.9	1.28	6.5	.95	11.8	.97	8.2	1.07	6.3	1.01
4	3.6	1.30	5.8	1.30	5.7	.98	10.2	1.01	7.1	1.03	5.4	1.00
3	2.3	1.32	4.8	1.30	5.0	.97	8.6	1.05	6.0	1.10	4.5	1.05
2	1.0	1.35	3.7	1.32	4.2	.98	6.9	1.06	4.9	1.15	3.6	1.05
1	- .3	1.40	2.7	1.32	3.5	1.00	5.3	1.10	3.8	1.15	2.7	1.07
0	- 1.6	1.43	1.6	1.36	2.7	1.03	3.7	1.16	2.7	1.17	1.8	1.10

TABLE 2090. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE COMPREHENSION SUBTESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, READING (COMPREHENSION) SUBTEST

PROCEDURE 3, EQUIPERCENTILE

	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION		CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION		ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION		STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)		SRA (71 ED.) BLUE FORM E READING (COMPR.)		SAT (64 ED.) INTERMEDIATE 1 FORM W PARAGRAPH MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
68					45.4	.00						
67					45.4	.11						
66					45.1	.16						
65					44.9	.15						
64					44.7	.14						
63					44.4	.15						
62					44.2	.14						
61					44.0	.20						
60					43.5	.18					45.4	.04
59					43.1	.19					45.1	.12
58					42.7	.19					44.9	.17
57					42.3	.22					44.6	.17
56					41.9	.20					44.4	.17
55					41.5	.24					44.1	.17
54					41.1	.22					43.8	.15
53					40.7	.23					43.4	.17
52					40.3	.26					42.9	.19
51					39.9	.28					42.5	.20
50					39.5	.33					42.2	.20
49					39.0	.33					41.8	.21
48					38.5	.36			45.3	.00	41.4	.24
47					38.0	.37			45.0	.06	41.0	.23
46					37.5	.37			44.6	.07	40.6	.26
45			45.2	.12	37.0	.41			44.2	.09	40.2	.25
44			44.7	.20	36.5	.45			43.8	.13	39.7	.26
43			44.2	.27	35.9	.48			43.3	.13	39.3	[illegible]
42	45.2	.04	43.4	[illegible]	35.3	.50			42.8	.14	38.8	.32
41	44.7	.09	42.6	[illegible]	34.7	.54			42.3	.16	38.3	.35
40	44.2	.17	41.9	.33	34.0	.59			41.9	.19	37.8	.39
39	43.6	.15	41.2	.36	33.4	.64			41.5	.19	37.3	.45
38	43.0	.16	40.5	.41	32.8	.69			41.0	.19	36.7	.50
37	42.4	.16	39.7	.44	32.2	.73			40.5	.22	36.0	.52
36	42.0	.17	38.9	.53	31.6	.83			40.1	.27	35.3	.57
35	41.4	.19	38.1	.60	30.9	.85			39.6	.28	34.5	.61
34	40.8	.18	37.3	.68	30.2	.94			39.0	.33	33.7	[illegible]
33	40.1	.18	36.4	.76	29.5	.98			38.5	.35	32.9	.74
32	39.4	.24	35.5	.86	28.7	1.06			37.9	.39	32.1	76
31	38.6	.27	34.5	.96	28.0	1.06			37.4	.44	31.3	.83
30	37.8	.31	33.5	1.09	27.2	1.05	45.1	.07	[illegible]	.49	30.5	.88
29	37.0	.30	32.6	1.24	26.4	1.03	[illegible]	.11	[illegible]	[illegible]	29.6	.95
28	36.0	.36	31.6	1.33	25.7	1.04	43.6	.20	35.5	.61	28.6	.99

TABLE 2090. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE COMPREHENSION SUBTESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, READING (COMPREHENSION) SUBTEST

PROCEDURE 3, EQUIPERCENTILE

	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION		CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION		ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION		STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)		SRA (71 ED.) BLUE FORM E READING (COMPR.)		SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
27	34.9	.45	30.6	1.44	24.8	1.01	42.7	.26	34.7	.66	27.5	1.04
26	33.7	.51	29.7	1.51	24.0	1.02	41.9	.25	33.9	.74	26.5	1.06
25	32.5	.52	28.7	1.55	23.1	1.00	41.1	.29	33.0	.80	25.5	1.09
24	31.0	.68	27.6	1.51	22.3	.97	40.3	.29	32.1	.87	24.4	1.11
23	29.5	.81	26.6	1.49	21.5	.94	39.5	.30	31.2	.95	23.3	1.11
22	27.7	1.00	25.5	1.45	20.6	.91	38.7	.34	30.0	1.04	22.1	1.04
21	26.1	1.03	24.4	1.39	19.5	.87	37.9	.38	28.7	1.14	21.1	.98
20	24.5	1.12	23.4	1.32	18.3	.91	37.0	.44	27.2	1.17	20.0	.93
19	22.9	1.16	22.3	1.28	16.8	.85	35.9	.50	25.6	1.13	18.8	.95
18	21.3	1.19	21.3	1.29	15.6	.83	34.7	.56	23.9	1.11	17.5	.93
17	19.9	1.19	20.2	1.28	14.4	.80	33.4	.63	22.2	1.03	16.2	.96
16	18.5	1.19	18.9	1.29	13.2	.74	32.0	.72	20.7	.99	14.9	.84
15	17.2	1.17	17.6	1.26	12.1	.66	30.5	.87	19.1	1.01	13.7	.81
14	15.8	1.11	16.2	1.15	11.0	.57	28.7	.99	17.3	.96	12.5	.76
13	14.5	1.02	14.7	1.07	9.9	.53	26.8	1.08	15.6	.90	11.5	.66
12	13.1	.98	13.5	.98	8.9	.45	24.7	1.09	14.0	.85	10.6	.59
11	11.9	.85	12.2	.88	8.0	.42	22.4	1.04	12.5	.79	9.7	.57
10	10.8	.70	11.0	.76	7.2	.38	20.0	1.00	11.2	.68	8.9	.51
9	9.6	.59	9.8	.70	6.5	.43	17.7	1.04	10.0	.59	8.1	.50
8	8.4	.54	8.6	.69	5.9	.49	15.4	.96	8.9	.54	7.3	.53
7	7.3	.43	7.3	.80	5.2	.49	13.4	.94	7.8	.54	6.5	.55
6	6.1	.41	6.2	.83	4.4	.52	11.6	.82	6.7	.52	5.8	.59
5	5.0	.40	5.2	.78	3.7	.51	10.0	.64	5.6	.43	5.0	.65
4	4.0	.52	4.2	.78	2.9	.58	8.4	.52	4.5	.34	4.0	.64
3	3.0	.62	3.1	.85	2.2	.66	6.7	.42	3.4	.35	3.0	.68
2	2.0	.71	2.1	1.00	1.4	.76	4.5	.42	2.3	.47	2.0	.74
1	1.0	.83	1.1	.91	.6	.90	2.5	.81	1.2	.66	1.0	.35
0	.0	.78	.0	.98	.0	.92	.5	.94	.1	.54	.0	.97

TABLE 2091. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE COMPREHENSION SUBTESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, READING (COMPREHENSION) SUBTEST

AVERAGE OF PROCEDURES 1 AND 2, LINEAR

	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION		CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION		ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION		STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)		SRA (71 ED.) BLUE FORM E READING (COMPR.)		SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
68					54.6	.47						
67					53.9	.49						
66					53.1	.46						
65					52.3	.46						
64					51.6	.42						
63					50.8	.44						
62					50.0	.41						
61					49.3	.41						
60					48.5	.40					55.3	.47
59					47.7	.39					54.4	.47
58					47.0	.36					53.5	.46
57					46.2	.36					52.6	.43
56					45.5	.33					51.7	.42
55					44.7	.33					50.8	.38
54					44.0	.33					49.9	.37
53					43.2	.31					49.0	.37
52					42.5	.31					48.1	.31
51					41.7	.29					47.2	.31
50					41.0	.30					46.3	.29
49					40.2	.28					45.4	.30
48					39.4	.27			55.6	.49	44.5	.28
47					38.7	.26			54.4	.44	43.6	.25
46					37.9	.24			53.3	.43	42.7	.26
45			48.7	.23	37.1	.25			52.2	.40	41.8	.25
44			47.6	.19	36.4	.23			51.1	.39	40.9	.23
43			46.6	.22	35.6	.25			50.0	.36	40.1	.21
42	53.9	.45	45.5	.21	34.8	.24			48.9	.33	39.2	.18
41	52.6	.44	44.5	.21	34.1	.24			47.3	.34	38.2	.21
40	51.3	.41	43.4	.21	33.3	.24			46.6	.31	37.3	.21
39	50.0	.42	42.3	.19	32.6	.23			45.5	.28	36.4	.21
38	48.6	.37	41.3	.19	31.8	.24			44.4	.27	35.[illegible]	.19
37	47.3	.36	40.2	.17	31.1	.24			43.2	.25	34.6	.19
36	46.0	.33	39.2	.19	30.3	.25			42.1	.23	33.8	.18
35	44.7	.33	38.1	.17	29.5	.26			41.0	.21	32.9	.18
34	43.4	.29	37.1	.17	28.8	.27			39.9	.20	32.0	.18
33	42.1	.29	36.0	.21	28.0	.29			38.8	.22	31.1	.23
32	40.8	.27	35.0	.18	27.3	.27			37.[illegible]	.22	30.1	.23
31	39.5	.25	33.9	.20	26.5	.29			36.6	.21	29.2	.23
30	38.2	.23	32.9	.20	25.7	.31	53.3	.35	35.4	.21	28.3	.25
29	36.9	.23	31.8	.21	25.0	.31	51.7	.35	34.3	.20	27.5	.24
28	35.6	.20	30.8	.20	24.2	.30	50.1	.31	33.2	.19	26.6	.24

TABLE 2091. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE COMPREHENSION SUBTESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, READING (COMPREHENSION) SUBTEST

AVERAGE OF PROCEDURES 1 AND 2, LINEAR

	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION		CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION		ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION		STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)		SRA (71 ED.) BLUE FORM E READING (COMPR.)		SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
27	34.3	.20	29.7	.21	23.5	.31	48.4	.27	32.1	.21	25.7	.27
26	33.0	.20	28.7	.22	22.7	.33	46.8	.26	30.9	.20	24.8	.28
25	31.7	.21	27.6	.22	21.9	.34	45.2	.25	29.8	.23	23.9	.31
24	30.4	.24	26.5	.26	21.2	.35	43.6	.23	28.7	.24	23.0	.32
23	29.0	.25	25.5	.24	20.4	.36	41.9	.15	27.6	.27	22.1	.32
22	27.7	.25	24.4	.26	19.6	.37	40.3	.17	26.5	.27	21.2	.31
21	26.4	.27	23.4	.27	18.9	.41	38.6	.14	25.4	.31	20.3	.37
20	25.1	.29	22.3	.28	18.1	.42	37.0	.12	24.3	.32	19.4	.37
19	23.8	.30	21.3	.27	17.4	.41	35.4	.10	23.1	.32	18.5	.37
18	22.5	.32	20.2	.28	16.6	.42	33.7	.13	22.0	.33	17.6	.40
17	21.2	.33	19.2	.30	15.9	.42	32.1	.13	20.9	.34	16.7	.40
16	19.9	.34	18.1	.33	15.1	.43	30.5	.15	19.8	.38	15.8	.46
15	18.6	.36	17.1	.31	14.4	.47	28.9	.18	18.6	.40	14.9	.48
14	17.3	.37	16.0	.33	13.6	.48	27.2	.19	17.5	.42	14.0	.48
13	16.0	.41	15.0	.35	12.8	.48	25.6	.22	16.4	.44	13.1	.51
12	14.7	.42	13.9	.38	12.1	.49	24.0	.25	15.3	.46	12.2	.51
11	13.4	.44	12.9	.39	11.3	.52	22.3	.26	14.2	.48	11.3	.53
10	12.1	.46	11.8	.38	10.5	.55	20.7	.29	13.1	.49	10.4	.56
9	10.7	.50	10.8	.39	9.8	.56	19.0	.37	11.9	.53	9.5	.58
8	9.4	.53	9.7	.41	9.0	.55	17.4	.38	10.8	.55	8.6	.58
7	8.1	.54	8.6	.41	8.2	.57	15.8	.39	9.7	.55	7.7	.60
6	6.8	.54	7.6	.43	7.5	.60	14.1	.43	8.6	.58	6.8	.60
5	5.5	.59	6.5	.45	6.7	.53	12.5	.46	7.4	.64	5.9	.63
4	4.2	.61	5.5	.46	6.0	.61	10.9	.51	6.3	.65	5.0	.67
3	2.9	.63	4.4	.48	5.2	.64	9.3	.53	5.2	.66	4.1	.67
2	1.6	.65	3.4	.48	4.5	.65	7.6	.56	4.1	.66	3.2	.66
1	.3	.69	2.3	.51	3.7	.66	6.0	.59	3.0	.69	2.3	.70
0	- 1.1	.73	1.3	.48	3.0	.68	4.4	.59	1.9	.69	1.4	.73

TABLE 2092. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE COMPREHENSION SUBTESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, READING (COMPREHENSION) SUBTEST

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE

	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION		CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION		ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION		STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)		SRA (71 ED.) BLUE FORM E READING (COMPR.)		SAT (64 ED.) INTERMEDIATE I FORM [illegible] PARAGRAPH [illegible]	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
68					45.4	.00						
67					45.4	.05						
66					45.3	.08						
65					45.0	.06						
64					44.7	.11						
63					44.5	.11						
62					44.2	.13						
61					43.9	.16						
60					43.5	.17					45.4	.00
59					43.0	.25					45.3	.11
58					42.7	.18					45.1	[illegible]
57					42.3	.20					44.8	.18
56					41.9	.18					44.4	.15
55					41.5	.17					44.1	[illegible]
54					41.1	.17					43.8	[illegible]
53					40.7	.15					43.3	.16
52					40.3	.17					42.9	.17
51					40.0	.13					42.5	.13
50					39.6	.16					42.1	.15
49					39.1	.17					41.7	.18
48					38.6	.17			45.3	.07	41.3	.16
47					38.2	.19			45.0	.12	41.0	.16
46					37.7	.18			44.6	.11	40.6	.18
45			45.2	.06	37.3	.19			44.3	.09	40.1	.18
44			44.7	.11	36.7	.22			43.9	.12	39.7	.17
43			44.2	.18	36.2	.22			43.2	.15	39.2	.17
42	45.2	.07	43.3	.20	35.6	.25			42.7	.10	38.7	.15
41	44.8	.10	42.6	.16	34.9	.28			42.2	.09	38.3	.18
40	44.2	.15	41.9	.16	34.3	.25			41.8	.09	37.8	.19
39	43.7	.21	41.1	.14	33.7	.23			41.3	.11	37.2	.21
38	43.1	.18	40.4	.12	33.2	.24			40.9	.12	[illegible]	.18
37	42.6	.18	39.6	.16	32.6	.24			40.4	.12	35.8	.21
36	42.1	.18	38.8	.19	32.0	.26			39.9	.12	35.1	.17
35	41.6	.19	38.0	.20	31.4	.29			39.4	.12	34.3	.17
34	41.0	.17	37.2	.21	30.7	.31			[illegible]	.10	33.5	.18
33	40.4	.15	36.3	.24	30.0	.32			[illegible]	.11	32.7	.18
32	39.8	.16	35.3	.23	29.2	.35			[illegible]	.13	31.9	.26
31	39.1	.21	34.3	.27	28.5	.36			[illegible]	.21	31.1	.27
30	38.3	.21	33.4	.28	27.7	.36	45.2	.05	36.4	.17	30.3	.32
29	37.6	.22	32.4	.33	25.9	.33	44.5	.09	35.7	.19	29.4	.37
28	36.7	.22	31.4	.36	26.1	.31	43.7	.16	34.9	.21	28.4	[illegible]

TABLE 2092. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE COMPREHENSION SUBTESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, READING (COMPREHENSION) SUBTEST

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE

	CAT (70 ED.) LEVEL 3 FORM A COMPREHENSION		CTBS (68 ED.) LEVEL 2 FORM Q COMPREHENSION		ITBS (71 ED.) LEVEL 10 FORM 5 COMPREHENSION		STEP-II (69 ED.) LEVEL 4 FORM A PART 2 (COMPR.)		SRA (71 ED.) BLUE FORM E READING (COMPR.)		SAT (64 ED.) INTERMEDIATE I FORM W PARAGRAPH MEANING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
27	35.8	.26	30.5	.39	25.3	.26	42.8	.20	34.1	.26	27.3	.42
26	34.7	.25	29.4	.39	24.5	.29	42.0	.19	33.3	.30	26.2	.44
25	33.5	.23	28.4	.42	23.5	.30	41.3	.19	32.4	.33	25.1	.44
24	32.2	.23	27.3	.40	22.8	.31	40.6	.17	31.4	.33	24.1	.47
23	30.8	.29	26.2	.38	21.9	.31	39.9	.16	30.5	.36	22.9	.49
22	29.1	.33	25.1	.29	21.0	.33	39.1	.15	29.2	.35	21.8	.47
21	27.5	.38	24.1	.26	19.8	.36	38.3	.11	27.9	.41	20.7	.47
20	25.8	.39	23.0	.23	18.5	.41	37.5	.13	26.4	.36	19.6	.44
19	24.1	.43	22.0	.25	17.2	.43	36.5	.11	24.8	.35	18.4	.46
18	22.5	.44	20.9	.23	15.8	.45	35.4	.15	23.1	.35	17.1	.51
17	20.9	.50	19.8	.27	14.5	.45	34.2	.15	21.6	.33	15.9	.54
16	19.6	.44	18.6	.26	13.4	.47	32.8	.20	20.0	.33	14.7	.53
15	18.1	.46	17.3	.32	12.2	.45	31.4	.27	18.4	.38	13.5	.57
14	16.5	.52	15.9	.32	11.0	.42	29.8	.32	16.7	.45	12.4	.53
13	15.1	.53	14.5	.36	9.9	.38	27.8	.36	15.1	.45	11.4	.51
12	13.7	.54	13.3	.35	8.8	.38	25.7	.32	13.6	.43	10.4	.52
11	12.3	.47	12.0	.33	8.0	.35	23.3	.32	12.2	.43	9.6	.50
10	11.0	.46	10.8	.31	7.1	.42	20.9	.41	10.8	.40	8.7	.47
9	9.8	.39	9.6	.25	6.4	.52	18.4	.46	9.7	.34	7.8	.49
8	8.6	.32	8.3	.31	5.7	.56	16.1	.55	8.5	.36	7.0	.51
7	7.4	.30	7.1	.45	5.1	.62	14.0	.56	7.4	.40	6.3	.52
6	6.3	.40	6.0	.45	4.3	.64	12.1	.50	6.4	.42	5.7	.59
5	5.1	.30	5.1	.42	3.6	.74	10.2	.49	5.4	.42	4.8	.51
4	4.1	.38	4.1	.42	2.8	.75	8.5	.40	4.2	.45	3.8	.47
3	3.1	.52	3.1	.47	2.1	.71	6.7	.27	3.0	.49	2.9	.51
2	2.1	.62	2.1	.59	1.4	.73	4.6	.29	1.9	.53	1.9	.65
1	1.0	.65	1.1	.63	.6	.83	2.6	.59	.7	.65	1.0	.75
0	.0	.85	.1	.78	.0	.86	.5	.88	.0	.69	.0	.98

ESTIMATES OF ERROR IN EQUATING THE TOTAL READING TESTS TO THE MAT (70 ED.) ELEMENTARY, FORM F, TOTAL READING TEST

PROCEDURE 1, LINEAR

	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING		CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING		ITBS (71 ED.) LEVEL 0 FORM 5 TOTAL READING		STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING		SRA (71 ED.) BLUE FORM E TOTAL READING		SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
106					115.5	1.30						
105					114.6	1.26						
104					113.6	1.25						
103					112.6	1.22						
102					111.6	1.17						
101					110.6	1.14						
100					109.6	1.13						
99					108.6	1.07						
98					107.6	1.04					119.7	1.50
97					106.6	1.00					118.6	1.44
96					105.6	.96					117.5	1.44
95					104.7	.97					116.3	1.39
94					103.7	.91					115.2	1.33
93					102.7	.88					114.0	1.31
92					101.7	.85					112.9	1.27
91					100.7	.83					111.8	1.22
90					99.7	.80			114.1	1.25	110.6	1.17
89					98.7	.76			113.0	1.22	109.5	1.11
88					97.7	.72			111.8	1.16	108.4	1.10
87					96.7	.72			110.7	1.14	107.2	1.06
86					95.8	.71			109.5	1.09	106.1	1.02
85			107.2	1.07	94.8	.65			108.4	1.08	104.9	.98
84			106.0	1.03	93.8	.63			107.2	1.03	103.8	.9[illegible]
83			104.8	.99	92.8	.63			106.1	.99	102.7	.89
82	116.2	1.20	103.6	.94	91.8	.59			104.9	.95	101.5	.85
81	114.8	1.15	102.4	.89	90.8	.56			103.8	.91	100.4	.83
80	113.5	1.12	101.2	.88	89.8	.53			102.6	.84	99.2	.77
79	112.1	1.06	99.9	.82	88.8	.50			101.5	.83	98.1	.73
78	110.7	1.01	98.7	.76	87.8	.50			100.3	.76	97.0	.70
77	109.4	.96	97.5	.76	86.8	.49			99.1	.71	95.8	.67
76	108.0	.92	96.3	.70	85.9	.46			98.0	.70	94.7	.64
75	106.6	.88	95.1	.65	84.9	.45			96.8	.65	93.[illegible]	.59
74	105.3	.85	93.9	.63	83.9	.44			95.7	.64	92.4	.55
73	103.9	.81	92.7	.58	82.9	.43			94.5	.58	91.3	.52
72	102.5	.75	91.5	.56	81.9	.42			93.4	.57	90.1	.47
71	101.2	.71	90.3	.53	80.9	.42			92.2	.51	89.0	.45
70	99.8	.66	89.1	.50	79.9	.41			91.1	.50	87.9	.43
69	98.4	.61	87.9	.46	78.9	.43			89.[illegible]	.47	86.7	.40
68	97.1	.58	86.7	.45	77.9	.41			8[illegible].6	.44	85.6	.33
67	95.7	.52	85.5	.39	76.9	.42			87.6	.39	84.4	.37
66	94.3	.47	84.3	.36	76.0	.42			86.5	.39	83.3	.34

ESTIMATES OF ERROR IN EQUATING THE TOTAL READING TESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, TOTAL READING TEST

PROCEDURE 1, LINEAR

	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING		CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING		ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING		STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING		SRA (71 ED.) BLUE FORM E TOTAL READING		SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
65	92.9	.45	83.1	.36	75.0	.43			85.3	.32	82.2	.33
64	91.6	.41	81.9	.33	74.0	.46			84.2	.34	81.0	.34
63	90.2	.35	80.7	.33	73.0	.47			83.0	.31	79.9	.37
62	88.8	.32	79.5	.32	72.0	.50			81.9	.31	78.7	.36
61	87.5	.28	78.2	.31	71.0	.51			80.7	.29	77.6	.34
60	86.1	.25	77.0	.31	70.0	.55	115.0	1.09	79.5	.29	76.5	.36
59	84.7	.24	75.8	.31	69.0	.76	113.2	1.05	78.4	.30	75.3	.38
58	83.4	.21	74.6	.32	68.0	.60	111.4	1.01	77.2	.30	74.2	.39
57	82.0	.21	73.4	.33	67.1	.60	109.5	.91	76.1	.32	73.1	.43
56	80.6	.22	72.2	.33	66.1	.64	107.7	.87	74.9	.34	71.9	.46
55	79.3	.21	71.0	.39	65.1	.55	105.8	.79	73.8	.37	70.8	.48
54	77.9	.23	69.8	.42	64.1	.66	104.0	.77	72.6	.39	69.6	.52
53	76.5	.27	68.6	.42	63.1	.71	102.2	.73	71.5	.43	68.5	.54
52	75.2	.27	67.4	.48	62.1	.72	100.3	.63	70.3	.47	67.4	.58
51	73.8	.32	66.2	.51	61.1	.77	98.5	.61	69.2	.49	66.2	.62
50	72.4	.37	65.0	.52	60.1	.80	96.6	.52	68.0	.53	65.1	.66
49	71.1	.39	63.8	.55	59.1	.82	94.8	.47	66.9	.55	63.9	.71
48	69.7	.44	62.6	.60	58.1	.85	93.0	.43	65.7	.59	62.8	.72
47	68.3	.48	61.4	.62	57.2	.89	91.1	.34	64.6	.63	61.7	.77
46	67.0	.53	60.2	.68	56.2	.91	89.3	.33	63.4	.66	60.5	.81
45	65.6	.58	59.0	.71	55.2	.94	[illegible]	.26	[illegible]	.70	59.4	.83
44	64.2	.63	57.8	.75	54.2	.97	85.6	.23	61.1	.75	58.3	.88
43	62.9	.64	56.5	.80	53.2	1.02	83.8	.18	59.9	.78	57.1	.92
42	61.5	.69	55.3	.84	52.2	1.05	81.9	.16	58.8	.83	56.0	.98
41	60.1	.75	54.1	.87	51.2	1.06	80.1	.16	57.6	.88	54.8	1.03
40	58.8	.77	52.9	.90	50.2	1.10	78.2	.20	56.5	.88	53.7	1.03
39	57.4	.82	51.7	.96	49.2	1.13	76.4	.20	55.3	.95	52.6	1.08
38	56.0	.88	50.5	.99	48.2	1.18	74.6	.24	54.2	.97	51.4	1.12
37	54.7	.91	49.3	1.03	47.3	1.18	72.7	.31	53.0	1.02	50.3	1.15
36	53.3	.96	48.1	1.08	46.3	1.23	70.9	.34	51.9	1.05	49.1	1.22
35	51.9	1.02	46.9	1.13	45.3	1.25	69.0	.43	50.7	1.09	[illegible]	1.26
34	50.5	1.07	45.7	1.13	44.3	1.30	67.2	.45	49.6	1.15	[illegible]	1.29
33	49.2	1.09	44.5	1.19	43.3	1.33	65.4	.51	48.4	1.19	45.7	1.36
32	47.8	1.14	43.3	1.24	42.3	1.36	63.5	.57	47.3	1.22	44.6	1.37
31	46.4	1.22	42.1	1.26	41.3	1.39	61.7	.63	46.1	1.25	43.5	1.40
30	45.1	1.25	40.9	1.31	40.3	1.44	59.8	.72	[illegible]	1.28	42.3	1.45
29	43.7	1.30	39.7	1.35	39.3	1.46	58.0	.74	[illegible]	1.34	41.2	1.48
28	42.3	1.35	38.5	1.39	38.4	1.47	56.2	.80	42.5	1.39	40.0	1.54
27	41.0	1.37	37.3	1.43	37.4	1.52	54.3	.84	41.5	1.41	38.9	1.59
26	39.6	1.42	36.1	1.48	36.4	1.54	52.5	.91	[illegible]	1.45	37.8	1.62
25	38.2	1.48	34.8	1.52	35.4	1.58	50.6	.99	39.2	1.48	36.6	1.58

TABLE 2093. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE TOTAL READING TESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, TOTAL READING TEST

PROCEDURE I - LINEAR

	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING		CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING		ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING		STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING		SRA (71 ED.) BLUE FORM E TOTAL READING		SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
24	36.9	1.50	33.6	1.56	34.4	1.63	48.8	1.03	38.0	1.55	35.5	1.70
23	35.5	1.55	32.4	1.62	33.4	1.65	47.0	1.09	36.9	1.57	34.3	1.75
22	34.1	1.61	31.2	1.64	32.4	1.67	45.1	1.14	35.7	1.62	33.2	1.80
21	32.8	1.64	30.0	1.69	31.4	1.73	43.3	1.20	34.6	1.65	32.1	1.83
20	31.4	1.71	28.8	1.73	30.4	1.76	41.4	1.28	33.4	1.69	30.9	1.88
19	30.0	1.76	27.6	1.77	29.4	1.80	39.6	1.32	32.3	1.76	29.8	1.93
18	28.7	1.78	26.4	1.79	28.5	1.8[illegible]	37.8	1.38	31.1	1.80	28.6	1.97
17	27.3	1.83	25.2	1.86	27.5	1.85	35.9	1.44	30.0	1.83	27.5	1.98
16	25.9	1.88	24.0	1.87	26.5	1.89	34.1	1.50	28.8	1.87	26.4	2.03
15	24.6	1.91	22.8	1.92	25.5	1.91	32.2	1.59	27.7	1.90	25.2	2.08
14	23.2	1.96	21.6	1.98	24.5	1.94	30.4	1.62	26.5	1.95	24.1	2.15
13	21.8	2.05	20.4	2.00	23.5	1.93	28.6	1.65	25.3	1.99	23.0	2.18
12	20.5	2.06	19.2	2.06	22.5	2.02	26.7	1.72	24.2	2.02	21.8	2.21
11	19.1	2.11	18.0	2.10	21.5	2.04	24.9	1.79	23.0	2.06	20.7	2.26
10	17.7	2.17	16.8	2.12	20.5	2.09	23.0	1.87	21.9	2.09	19.5	2.29
9	16.4	2.19	15.6	2.17	19.6	2.11	21.2	1.91	20.7	2.16	18.4	2.32
8	15.0	2.24	14.4	2.21	18.6	2.15	19.4	1.95	19.6	2.19	17.3	2.37
7	13.6	2.29	13.2	2.24	17.6	2.18	17.5	2.03	18.4	2.23	16.1	2.44
6	12.3	2.31	11.9	2.31	16.6	2.22	15.7	2.06	17.3	2.26	15.0	2.46
5	10.9	2.40	10.7	2.35	15.6	2.24	13.8	2.16	16.1	2.29	13.8	2.53
4	9.5	2.44	9.5	2.38	14.6	2.28	12.0	2.20	15.0	2.35	12.7	2.56
3	8.1	2.50	8.3	2.44	13.6	2.34	10.2	2.25	13.8	2.41	11.6	2.61
2	6.8	2.52	7.1	2.46	12.6	2.34	8.3	2.33	12.7	2.44	10.4	2.63
1	5.4	2.57	5.9	2.51	11.6	2.40	6.5	2.37	11.5	2.48	9.3	2.65
0	4.0	2.63	4.7	2.54	10.6	2.42	4.6	2.47	10.4	2.51	8.2	2.72

ESTIMATES OF ERROR IN EQUATING THE TOTAL READING TESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, TOTAL READING TEST

PROCEDURE 1, EQUIPERCENTILE

	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING		CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING		ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING		STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING		SRA (71 ED.) BLUE FORM E TOTAL READING		SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
106					95.3	.20						
105					95.0	.35						
104					94.7	.47						
103					94.4	.47						
102					94.0	.55						
101					93.7	.44						
100					93.4	.41						
99					93.1	.38						
98					92.7	.37					95.3	.08
97					92.4	.33					95.0	.29
96					92.0	.31					94.7	.45
95					91.6	.31					94.4	.44
94					91.2	.34					94.0	.41
93					90.9	.30					93.7	.30
92					90.5	.30					93.4	.25
91					90.1	.28					93.1	.23
90					89.7	.26			95.3	.36	92.7	.25
89					89.2	.26			94.8	.47	92.3	[illegible]
88					88.8	.29			94.4	.59	91.8	.28
87					88.4	.27			93.9	.59	91.5	.29
86					87.9	.27			[illegible]	.45	91.2	.27
85			95.4	.26	87.5	.28			93.0	.31	90.9	.30
84			95.2	.39	87.1	.26			92.5	.30	90.7	.28
83			94.5	.29	86.7	.24			92.0	.29	90.4	.24
82	95.4	.26	93.9	.23	86.2	.27			91.4	.26	90.2	.27
81	95.2	.41	93.3	.20	85.8	.28			90.9	.27	89.8	.26
80	94.5	.32	92.6	.23	85.4	.23			90.4	.28	89.3	.22
79	93.9	.31	91.9	.22	84.9	.27			89.9	.27	88.8	.24
78	93.1	.40	91.3	.22	84.5	.24			89.4	.24	88.4	.22
77	92.5	.36	90.6	.23	84.0	.27			89.0	.26	87.9	.21
76	92.1	.32	90.1	.24	83.5	.31			88.5	.23	87.[illegible]	.23
75	91.7	.26	89.5	.25	83.0	.34			88.0	.24	87.0	.25
74	91.3	.27	88.9	.28	82.5	.32			87.5	.22	86.6	.23
73	90.8	.28	88.2	.26	82.0	.36			87.0	.22	86.1	.28
72	90.5	.28	87.5	.22	81.4	.39			86.5	.23	85.6	.30
71	90.1	.30	86.8	.19	80.8	.41			[illegible]	.25	85.2	.28
70	89.6	.27	86.1	.17	80.2	.41			[illegible]	.25	84.7	.26
69	89.1	.29	85.3	.19	79.5	.46			[illegible]	.24	84.2	.24
68	88.6	.29	84.6	.18	78.9	.46			34.5	.24	83.7	.27
67	88.1	.24	83.8	.23	78.3	.49			[illegible]	.24	83.2	.28
66	87.6	.22	83.1	.27	77.6	.51			83.5	.21	82.7	[illegible]

TABLE 2094. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE TOTAL READING TESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, TOTAL READING TEST

PROCEDURE 1, EQUIPERCENTILE

	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING		CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING		ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING		STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING		SRA (71 ED.) BLUE FORM E TOTAL READING		SAT (64 ED.) INTERMEDIATE 1 FORM W TOTAL READING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
65	87.1	.19	82.3	.29	77.0	.46			83.0	.19	82.2	.32
64	86.6	.18	81.5	.34	76.4	.43			82.5	.20	81.6	.37
63	86.1	.19	80.6	.37	75.8	.41			82.0	.26	81.0	.35
62	85.5	.21	79.8	.39	75.1	.38			81.4	.26	80.4	.41
61	84.9	.21	78.9	.41	74.4	.36			80.7	.28	79.7	.43
60	84.3	.22	78.1	.33	73.7	.36	95.2	.34	80.1	.31	79.0	.43
59	83.7	.24	77.2	.32	72.9	.37	94.6	.36	79.4	.33	78.2	.38
58	83.0	.27	76.2	.36	72.2	.37	93.9	.28	78.7	.32	77.5	.39
57	82.3	.30	75.2	.39	71.5	.37	93.3	.25	78.0	.33	76.6	.34
56	81.5	.36	74.2	.45	70.8	.42	92.7	.26	77.4	.35	75.7	.30
55	80.6	.36	73.2	.46	70.1	.47	92.0	.21	76.6	.28	74.8	.32
54	79.7	.38	72.2	.46	69.5	.50	91.2	.20	75.9	.29	73.8	.35
53	78.8	.35	71.2	.44	68.7	.53	90.5	.19	75.2	.31	72.8	.35
52	77.9	.33	70.3	.43	68.0	.55	89.8	.16	74.4	.34	71.9	.37
51	76.9	.27	69.3	.42	67.2	.54	89.1	.15	73.6	.34	71.0	.38
50	75.9	.24	68.3	.39	66.4	.57	88.4	.18	72.7	.34	70.2	.38
49	74.9	.24	67.3	.38	65.6	.61	87.6	.14	71.9	.36	69.3	.42
48	73.8	.22	66.2	.41	64.7	.61	86.9	.17	71.1	.36	68.3	.44
47	72.6	.26	64.9	.33	63.8	.58	86.1	.15	70.3	.34	67.3	.49
46	71.5	.27	63.7	.38	62.9	.60	85.3	.15	69.5	.37	66.2	.54
45	70.3	.27	62.5	.45	62.0	.57	[illegible]	.15	[illegible]	.34	65.1	.56
44	69.1	.34	61.3	.49	61.1	.58	83.7	.15	67.5	.35	64.0	.53
43	67.8	.39	60.1	.50	60.2	.55	82.8	.14	66.5	.36	62.8	.67
42	66.6	.41	58.9	.52	59.1	.51	81.9	.18	65.4	.35	[illegible]	.68
41	65.2	.45	57.8	.57	58.1	.52	80.9	.22	64.4	.40	60.2	.61
40	63.8	.45	56.6	.63	57.0	.54	79.9	.27	63.3	.40	58.9	.62
39	62.3	.48	55.3	.67	55.8	.60	78.8	.33	62.1	.44	57.6	.66
38	60.8	.52	54.1	.77	54.3	.68	77.7	.40	60.9	.48	56.3	.75
37	59.2	.63	52.8	.87	52.8	.79	76.4	.44	59.6	.53	54.9	.78
36	57.4	.78	51.4	.87	51.2	.90	75.1	.37	58.1	.62	53.5	.73
35	55.7	.95	49.8	.89	49.4	1.08	73.7	.32	56.6	.75	[illegible]	.76
34	54.0	1.04	48.2	.95	47.5	1.27	72.2	.29	55.1	.89	[illegible]	.75
33	52.3	1.17	46.4	.94	45.5	1.42	70.7	.28	53.5	1.01	48.5	.84
32	50.1	1.33	44.6	.83	43.3	1.53	69.0	.29	51.9	1.12	46.6	.96
31	47.9	1.49	42.8	.74	41.1	1.59	67.1	.25	50.1	1.21	44.6	1.14
30	45.6	1.67	40.9	.72	38.8	1.59	64.9	.30	[illegible]	1.31	42.7	1.33
29	43.4	1.72	39.1	.82	36.6	.58	62.8	.28	[illegible]	1.40	40.7	1.45
28	41.1	1.81	37.3	.97	34.4	1.62	60.7	.20	[illegible]	1.39	38.5	1.60
27	39.1	1.76	35.5	1.13	32.3	1.65	58.6	.28	41.5	1.40	36.3	1.71
26	37.1	1.79	33.9	1.17	30.2	1.68	56.4	.59	[illegible]	1.38	34.3	1.77
25	35.1	1.79	32.3	1.24	28.4	1.60	54.0	.75	36.2	1.39	32.2	1.91

TABLE 2094. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE TOTAL READING TESTS TO THE MAT (70 ED.) ELEMENTARY, FORM F, TOTAL READING TEST

PROCEDURE 1, EQUIPERCENTILE

	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING		CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING		ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING		STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING		SRA (71 ED.) BLUE FORM E TOTAL READING		SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
24	33.2	1.77	30.7	1.30	26.7	1.55	51.5	.85	33.9	1.40	30.2	1.82
23	31.3	1.70	29.0	1.27	24.9	1.57	48.3	.98	31.7	1.44	28.7	1.79
22	29.5	1.62	27.4	1.21	23.3	1.58	45.0	1.11	29.7	1.44	27.1	1.92
21	27.9	1.56	25.7	1.23	21.9	1.71	41.6	1.24	27.9	1.50	25.6	1.98
20	26.2	1.58	24.1	1.26	20.5	1.64	38.8	1.26	26.1	1.59	24.1	1.97
19	24.6	1.56	22.4	1.36	19.1	[illegible]	36.0	1.34	24.3	1.72	22.6	2.01
18	22.9	1.64	20.9	1.37	18.0	[illegible]	33.5	1.38	22.7	1.84	21.2	2.02
17	21.2	1.65	19.5	1.23	16.8	1.64	31.2	1.33	21.4	1.90	19.9	1.87
16	19.7	1.45	18.3	1.09	16.1	1.65	28.8	1.37	20.2	1.86	18.8	1.59
15	18.3	1.28	17.1	1.08	15.4	1.67	26.6	1.43	19.1	1.66	18.0	1.53
14	17.0	1.05	15.9	1.14	14.7	1.73	24.3	1.59	17.9	1.50	17.2	1.51
13	15.2	1.09	14.7	1.26	14.0	1.76	22.2	1.74	16.7	1.37	16.3	1.52
12	14.0	.95	13.9	1.41	13.3	1.77	20.6	1.65	15.6	1.32	15.5	1.57
11	13.2	1.06	13.2	1.72	12.6	1.82	19.2	1.46	14.5	1.41	14.6	1.61
10	12.4	1.46	12.5	2.04	11.9	1.90	17.8	1.20	13.8	1.31	13.8	1.67
9	11.6	1.97	11.8	2.38	11.1	1.95	16.3	1.08	13.1	1.22	13.0	[illegible]
8	10.9	2.57	11.1	2.80	10.4	2.12	14.5	1.07	12.4	1.12	12.3	1.71
7	10.1	3.13	10.4	3.18	9.7	2.32	13.3	.87	11.7	1.06	11.5	1.74
6	9.3	3.76	9.7	3.61	9.0	2.55	[illegible]	.80	[illegible]	1.04	10.7	1.76
5	8.5	4.32	9.0	4.02	8.3	2.80	10.8	.76	10.3	1.03	10.0	1.85
4	7.7	4.90	8.3	4.31	7.6	3.11	9.6	.86	9.6	1.07	9.2	1.91
3	6.9	4.90	7.6	4.39	6.9	3.39	8.3	.98	[illegible]	1.15	8.4	1.98
2	6.1	4.46	6.9	4.52	6.1	3.57	7.1	1.15	8.2	1.25	7.7	2.11
1	5.3	3.94	6.1	4.35	5.4	3.86	5.9	1.42	7.5	1.38	6.9	2.19
0	4.5	3.46	5.4	3.98	4.7	3.92	4.7	1.66	6.8	1.51	6.1	2.28

TABLE 2095. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE TOTAL READING TESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, TOTAL READING TEST

PROCEDURE 2, LINEAR

	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING		CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING		ITBS (71 ED.) LEVEL 11 FORM 5 TOTAL READING		STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING		SRA (71 ED.) BLUE FORM E TOTAL READING		SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
106					116.0	1.29						
105					115.0	1.28						
104					114.0	1.24						
103					113.0	1.21						
102					112.0	1.19						
101					111.0	1.[illegible]7						
100					110.0	1.13						
99					109.0	1.12						
98					108.0	1.07					121.2	1.39
97					107.0	1.05					120.0	1.35
96					106.0	1.03					118.9	1.34
95					105.1	.99					117.7	1.30
94					104.1	.98					116.6	1.27
93					103.1	.95					115.4	1.2[illegible]
92					102.1	.95					114.2	1.[illegible]
91					101.1	.89					113.1	1.17
90					100.1	.86			114.1	.96	111.9	1.14
89					99.1	.86			112.9	.92	110.8	1.10
88					98.1	.83			111.8	.93	109.6	1.07
87					97.1	.78			110.6	.89	108.5	1.05
86					96.1	.78			109.5	.88	107.3	1.01
85			107.5	.84	95.1	.76			108.3	.82	106.1	1.0[illegible]
84			106.2	.78	94.1	.75			107.1	.82	105.0	.97
83			105.0	.75	93.1	.71			106.0	.81	103.8	.92
82	115.9	.81	103.8	.74	92.1	.68			104.8	.79	102.7	.91
81	114.5	.79	102.6	.69	91.1	.66			103.7	.77	101.5	.87
80	113.1	.74	101.4	.66	90.2	.65			102.5	.74	100.4	.83
79	111.8	.74	100.2	.66	89.2	.62			101.3	.70	99.2	.80
78	110.4	.69	99.0	.65	88.2	.62			100.2	.69	98.0	.76
77	109.0	.69	97.8	.58	87.2	.59			99.0	.66	96.5	.77
76	107.7	.67	96.6	.57	86.2	.59			97.9	.66	95.[illegible]	.74
75	106.3	.62	95.3	.54	85.2	.56			96.7	.63	94.5	.71
74	104.9	.62	94.1	.50	84.2	.54			95.5	.62	93.4	.68
73	103.6	.59	92.9	.48	83.2	.53			94.4	.58	92.3	.66
72	102.2	.56	91.7	.46	82.2	.50			93.2	.57	91.1	.62
71	100.8	.56	90.5	.44	81.2	.48			92.1	.56	89.9	.60
70	99.5	.52	89.3	.40	80.2	.48			90.[illegible]	.53	88.8	.57
69	98.1	.50	88.1	.39	79.2	.47			89.8	.54	87.6	.53
68	96.8	.46	86.9	.38	78.2	.47			88.6	.51	86.5	.53
67	95.4	.44	85.6	.33	77.2	.49			87.4	.48	85.3	.48
66	94.0	.44	84.4	.31	76.2	.47			86.3	.50	84.1	.43

ESTIMATES OF ERROR IN EQUATING THE TOTAL READING TESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, TOTAL READING TEST

PROCEDURE 2, LINEAR

	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING		CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING		ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING		STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING		SRA (71 ED.) BLUE FORM E TOTAL READING		SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
65	92.7	.41	83.2	.30	75.2	.46			85.1	.48	83.0	.49
64	91.3	.40	82.0	.28	74.3	.46			84.0	.50	81.8	.44
63	89.9	.40	80.8	.27	73.3	.45			82.8	.47	80.7	.45
62	88.6	.38	79.6	.27	72.3	.45			81.6	.48	79.5	.42
61	87.2	.36	78.4	.25	71.3	.49			80.5	.47	78.4	.40
60	85.8	.35	77.2	.28	70.3	.50	114.0	.79	79.3	.46	77.2	.41
59	84.5	.36	75.9	.24	69.3	.49	112.2	.76	78.2	.46	76.0	.37
58	83.1	.36	74.7	.24	68.3	.52	110.4	.74	77.0	.45	74.9	.37
57	81.7	.34	73.5	.24	67.3	.51	108.5	.66	75.9	.46	73.7	.39
56	80.4	.35	72.3	.26	66.3	.52	106.7	.63	74.7	.46	72.6	.37
55	79.0	.34	71.1	.27	65.3	.55	104.9	.62	73.5	.44	71.4	.39
54	77.6	.35	69.9	.29	64.3	.56	103.1	.58	72.4	.48	70.3	.40
53	76.3	.36	68.7	.31	63.3	.59	101.3	.55	71.2	.47	69.1	.38
52	74.9	[illegible]	67.5	.36	62.3	.59	99.5	.50	70.1	.50	67.9	.42
51	73.5	.38	66.3	.36	61.3	.62	97.7	.50	68.9	.49	66.8	.42
50	72.2	.38	65.0	.35	60.3	.64	95.8	.44	67.7	.51	65.6	.43
49	70.8	.41	63.8	.39	59.3	.65	94.0	.42	66.6	.53	64.5	.47
48	69.4	.44	62.6	.41	58.4	.70	92.2	.39	65.4	.55	63.3	.49
47	68.1	.42	61.4	.43	57.4	.71	90.4	.37	64.3	.56	62.2	.49
46	66.7	.46	60.2	.46	56.4	.71	88.6	.35	63.1	.57	61.0	.53
45	65.3	.47	59.0	.49	55.4	.77	[illegible]	[illegible]	61.9	.60	59.8	.55
44	64.0	.50	57.8	.52	54.4	.77	85.0	[illegible]	60.8	.64	58.7	.55
43	62.6	.51	56.6	.55	53.4	.80	83.1	.24	59.6	.63	57.5	.59
42	61.3	.54	55.3	.58	52.4	.83	81.3	.25	58.5	.64	56.4	.62
41	59.9	.57	54.1	.59	51.4	.85	79.5	.22	57.3	.65	55.2	.64
40	58.5	.58	52.9	.62	50.4	.86	77.7	.25	56.2	.69	54.1	.67
39	57.2	.61	51.7	.63	49.4	.89	75.9	.22	55.0	.71	52.9	.71
38	55.8	.63	50.5	.68	48.4	.91	74.1	.22	53.8	.74	51.7	.72
37	54.4	.64	49.3	.72	47.4	.97	72.3	.26	52.7	.74	50.6	.75
36	53.1	.66	48.1	.74	46.4	.97	70.4	.22	51.5	.77	49.4	.80
35	51.7	.68	46.9	.76	45.4	1.00	68.6	.25	50.4	.80	[illegible]	.81
34	50.3	.72	45.6	.79	44.4	1.04	66.8	.25	49.2	.83	47.1	.85
33	49.0	.76	44.4	.82	43.4	1.04	65.0	.31	48.0	.84	46.0	.85
32	47.6	.76	43.2	.84	42.5	1.08	63.2	.31	46.9	.88	44.8	.89
31	46.2	.80	42.0	.86	41.5	1.12	61.4	.35	45.7	.88	43.6	.93
30	44.9	.81	40.8	.91	40.5	1.12	59.5	.38	44.6	.92	42.5	.96
29	43.5	.85	39.6	.95	39.5	1.17	57.7	.40	[illegible]	.94	41.3	.99
28	42.1	.87	38.4	.96	38.5	1.19	55.9	.43	42.3	.96	40.2	1.01
27	40.8	.88	37.2	1.00	37.5	1.20	54.1	.46	41.1	.99	39.0	1.04
26	39.4	.93	36.0	1.02	36.5	1.25	52.3	.51	[illegible]	1.03	37.9	1.08
25	38.0	.94	34.7	1.06	35.5	1.28	50.5	.51	38.8	1.03	36.7	1.12

ESTIMATES OF ERROR IN EQUATING THE TOTAL READING TESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, TOTAL READING TEST

PROCEDURE 2, LINEAR

	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING		CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING		ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING		STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING		SRA (71 ED.) BLUE FORM E TOTAL READING		SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
24	36.7	.97	33.5	1.07	34.5	1.29	48.7	.58	37.6	1.05	35.5	1.14
23	35.3	1.01	32.3	1.12	33.5	1.33	46.8	.59	36.5	1.07	34.4	1.18
22	33.9	1.02	31.1	1.15	32.5	1.36	45.0	.63	35.3	1.10	33.2	1.21
21	32.6	1.05	29.9	1.16	31.5	1.38	43.2	.65	34.1	1.13	32.1	1.21
20	31.2	1.07	28.7	1.19	30.5	1.41	41.4	.71	33.0	1.17	30.9	1.26
19	29.8	1.09	27.5	1.24	29.5	1.43	39.6	.71	31.8	1.17	29.8	1.27
18	28.5	1.14	26.3	1.28	28.5	1.49	37.8	.75	30.7	1.20	28.6	1.29
17	27.1	1.14	25.0	1.28	27.5	1.49	36.0	.79	29.5	1.23	27.4	1.34
16	25.8	1.18	23.8	1.32	26.6	1.51	34.1	.84	28.3	1.26	26.3	1.38
15	24.4	1.22	22.6	1.35	25.6	1.56	32.3	.86	27.2	1.30	25.1	1.41
14	23.0	1.23	21.4	1.38	24.6	1.59	30.5	.89	26.0	1.32	24.0	1.44
13	21.7	1.26	20.2	1.40	23.6	1.60	28.7	.93	24.9	1.34	22.8	1.49
12	20.3	1.28	19.0	1.41	22.6	1.64	26.9	.95	23.7	1.37	21.7	1.50
11	18.9	1.31	17.8	1.48	21.6	.66	25.1	1.03	22.6	1.40	20.5	1.53
10	17.6	1.35	16.6	1.48	20.6	1.69	23.3	1.03	21.4	1.41	19.3	1.58
9	15.2	1.36	15.3	1.53	19.6	1.72	21.4	1.06	20.2	1.44	18.2	[illegible]
8	14.8	1.40	14.1	1.55	18.6	1.75	19.6	1.10	19.1	1.46	17.0	1.62
7	13.5	1.44	12.9	1.59	17.6	1.78	17.8	1.15	17.9	1.48	15.9	1.65
6	12.1	1.44	11.7	1.62	16.6	1.80	16.0	1.18	16.8	1.52	14.7	1.70
5	10.7	1.49	10.5	1.64	15.6	1.84	14.2	1.20	15.6	1.52	13.6	1.72
4	9.4	1.52	9.3	1.67	14.6	1.86	12.4	1.24	14.4	1.56	12.4	1.75
3	8.0	1.55	8.1	1.70	13.6	1.88	10.6	1.28	13.3	1.59	11.2	1.80
2	6.6	1.56	6.9	1.74	12.6	1.93	8.7	1.31	12.1	1.63	10.1	1.83
1	5.3	1.59	5.7	1.74	11.7	1.95	6.9	1.35	11.0	1.64	8.9	1.87
0	3.9	1.63	4.4	1.80	10.7	1.96	5.1	1.38	9.8	1.68	7.8	1.88

TABLE 2096. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE TOTAL READING TESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, TOTAL READING TEST

PROCEDURE 2, EQUIPERCENTILE

	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING		CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING		ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING		STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING		SRA (71 ED.) BLUE FORM E TOTAL READING		SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
106					95.4	.00						
105					95.4	.00						
104					95.4	.00						
103					95.4	.05						
102					95.3	.21						
101					94.8	.22						
100					94.3	.23						
99					93.8	.22						
98					93.3	.24					95.4	.05
97					92.8	.25					95.1	[illegible]
96					92.4	.24					94.8	.40
95					92.0	.27					94.5	.50
94					91.5	.24					94.2	.59
93					91.1	.27					93.9	[illegible]
92					90.5	.25					93.6	[illegible]
91					90.1	.26					93.3	.33
90					89.6	.32			95.3	.09	93.0	.26
89					89.2	.34			94.8	.22	92.7	.25
88					88.8	.38			94.3	.21	92.3	.27
87					88.3	.35			93.8	.22	91.9	.30
86					87.9	.34			[illegible]	.23	91.5	.28
85			95.2	.09	87.5	.32			92.8	.29	91.0	.26
84			94.7	.20	87.1	.29			92.2	.38	90.6	.26
83			94.2	.19	86.6	.26			91.5	.34	90.2	.26
82	95.2	.09	93.7	.22	86.2	.23			90.9	.30	89.7	.28
81	94.7	.26	93.1	.27	85.8	.24			90.4	.28	89.3	.29
80	94.2	.39	92.6	.32	85.4	.24			89.9	.22	88.9	.29
78	93.7	.36	92.0	.30	84.9	.21			89.4	.19	88.5	.25
77	93.2	.35	91.3	.22	84.4	.21			88.9	.19	88.1	.19
76	92.7	.37	90.5	.20	84.0	.24			88.5	.18	87.7	.20
[illegible]	92.1	.33	89.8	.21	83.5	.24			88.0	.17	[illegible]	.18
75	91.5	.25	89.2	.21	83.0	.25			87.5	.14	86.9	.16
74	91.1	.22	88.5	.15	82.4	.22			87.0	.12	86.5	.13
73	90.5	.22	87.8	.15	81.9	.23			86.5	.15	86.1	.13
72	90.0	.23	87.2	.14	81.4	.25			84.0	.17	85.7	.15
71	89.5	.26	86.6	.18	80.8	.22			[illegible]	.21	85.3	.15
70	89.1	.25	86.0	.21	80.2	.21			85.	.19	84.8	.18
69	88.6	.22	85.3	.24	79.6	.25			[illegible]	.24	84.4	.22
68	88.2	.22	84.6	.26	79.1	.30			84.1	.25	83.9	.24
67	87.7	.24	83.9	.29	78.4	.31			[illegible]	.29	83.4	.28
66	87.2	.20	83.2	.32	77.7	.33			83.1	.29	82.9	.32

ESTIMATES OF ERROR IN EQUATING THE TOTAL READING TESTS TO THE MAT (70 ED.) ELEMENTARY, FORM F, TOTAL READING TEST

PROCEDURE 2, EQUIPERCENTILE

	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING		CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING		ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING		STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING		SRA (71 ED.) BLUE FORM E TOTAL READING		SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
65	86.6	.20	82.3	.25	77.0	.34			82.5	.29	82.3	.33
64	86.1	.17	81.5	.26	76.4	.38			82.0	.33	81.8	.35
63	85.6	.17	80.6	.27	75.7	.42			81.4	.33	81.2	.38
62	85.0	.15	79.8	.30	75.1	.49			80.9	.35	80.6	.40
61	84.5	.14	79.0	.34	74.4	.53			80.4	.32	79.9	.40
60	83.9	.14	78.1	.36	73.8	.57	95.2	.04	79.8	.33	79.2	.41
59	83.3	.18	77.1	.42	73.2	.60	94.5	.08	79.3	.31	78.5	.43
58	82.6	.18	76.2	.48	72.5	.65	93.9	.11	78.7	.30	77.7	.45
57	81.9	.18	75.3	.57	71.9	.68	93.2	.16	78.1	.38	77.0	.51
56	81.2	.24	74.4	.65	71.2	.71	92.6	.21	77.4	.37	76.2	.59
55	80.4	.25	73.5	.74	70.4	.73	91.9	.19	76.8	.34	75.4	.65
54	79.6	.28	72.4	.79	69.6	.70	91.1	.22	76.1	.41	74.7	.71
53	78.7	.32	71.3	.83	68.8	.72	90.3	.34	75.3	.45	73.9	.75
52	77.8	.31	70.2	.84	68.0	.77	89.5	.35	74.6	.56	73.0	.79
51	76.8	.40	69.2	.82	67.1	.78	88.7	.31	73.8	.62	72.1	.84
50	75.8	.50	68.1	.80	66.3	.74	87.9	.26	73.1	.72	71.2	.77
49	74.8	.56	67.0	.78	65.4	.74	87.1	.19	72.3	.76	70.2	.85
48	73.8	.66	65.9	.76	64.5	.71	86.4	.16	71.5	.78	69.2	.84
47	72.7	.73	64.8	.82	63.5	.71	85.6	.13	70.6	.82	68.2	.84
46	71.5	.76	63.4	.72	62.4	.66	84.9	.09	69.7	.77	66.9	.87
45	70.3	.82	62.1	.67	61.4	.69	84.2	.11	[illegible]	.71	65.7	.89
44	69.0	.80	60.8	.61	60.4	.67	83.5	.16	67.6	.71	64.4	.90
43	67.5	.87	59.5	.56	59.4	.57	82.5	.14	66.5	.72	63.0	.91
42	66.0	.89	58.3	.53	58.5	.45	81.6	.21	65.4	.75	61.7	.89
41	64.4	.88	57.0	.46	57.5	.44	80.6	.23	64.2	.79	60.4	.91
40	62.7	.83	55.7	.42	56.3	.45	79.5	.25	62.9	.72	59.2	.88
39	61.0	.73	54.4	.37	55.1	.53	78.3	.29	61.5	.62	57.9	.85
38	59.5	.60	53.0	.39	53.8	.60	77.0	.31	60.2	.56	56.5	.84
37	57.9	.54	51.6	.41	52.4	.67	75.6	.41	58.9	.52	55.0	.80
36	56.3	.54	50.2	.47	51.0	.65	74.1	.47	57.6	.51	53.5	.81
35	54.5	.58	48.8	.48	49.6	.68	72.7	.59	56.0	.48	51.7	.84
34	52.7	.68	47.5	.52	48.0	.61	71.3	.74	54.4	.51	50.0	.86
33	50.7	.76	46.2	.59	46.4	.71	69.7	.72	52.8	.54	48.3	.81
32	48.7	.80	44.8	.64	44.7	.87	68.1	.74	51.2	.56	46.5	.78
31	46.8	.79	43.2	.78	42.5	1.06	66.1	.67	49.6	.54	44.7	.80
30	44.9	.83	41.5	1.05	40.4	1.30	64.0	.63	47.8	.58	42.6	1.03
29	43.0	.96	39.9	1.32	38.1	1.41	61.9	.61	45.9	.69	40.6	1.21
28	41.2	1.10	38.1	1.43	35.8	1.48	59.7	.59	43.[illegible]	.79	38.6	1.30
27	39.3	1.25	36.4	1.53	33.2	1.27	57.5	.60	41.3	.94	36.5	1.43
26	37.4	1.27	34.5	1.61	30.6	1.04	55.2	.58	39.0	1.07	34.4	1.49
25	35.5	1.30	32.5	1.42	28.4	.85	52.9	.57	36.7	1.23	32.1	1.39

ESTIMATES OF ERROR IN EQUATING THE TOTAL READING TESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, TOTAL READING TEST

PROCEDURE 2, EQUIPERCENTILE

	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING		CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING		ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING		STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING		SRA (71 ED.) BLUE FORM E TOTAL READING		SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
24	33.5	1.22	30.6	1.23	26.5	.67	50.6	.52	34.3	1.25	29.8	1.36
23	31.4	1.11	28.8	1.11	24.6	.58	48.4	.52	31.8	1.11	28.1	1.13
22	29.4	.99	27.3	.95	22.9	.48	46.0	.52	29.4	1.03	26.4	1.02
21	27.9	.86	25.8	.80	21.5	.44	43.5	.51	27.4	.89	24.7	.90
20	26.3	.69	24.2	.67	20.3	.37	40.9	.66	25.4	.73	23.2	.82
19	24.7	.56	22.5	.67	19.2	[illegible]	38.1	.81	23.4	.62	21.8	.61
18	23.0	.52	21.0	.71	18.1	.51	35.3	1.01	21.7	.60	20.6	[illegible]
17	21.5	.49	19.6	.71	17.1	.61	32.1	.95	20.5	.48	19.6	.53
16	20.4	.42	18.4	.68	16.0	.88	29.2	.91	19.3	.37	18.8	.89
15	19.2	.45	17.1	.98	14.9	1.23	27.1	.81	18.2	.45	17.9	1.05
14	18.0	.66	15.8	1.10	14.2	1.42	25.0	.72	17.0	.62	17.1	1.21
13	16.3	.74	14.7	1.21	13.5	1.66	23.2	.54	15.7	.82	16.4	1.35
12	14.6	.87	13.8	1.24	12.7	1.98	21.3	.60	14.5	.91	15.6	1.51
11	13.3	1.00	13.0	1.31	12.0	2.29	19.7	.50	13.4	.87	14.9	1.62
10	11.9	1.16	12.2	1.44	11.3	2.55	18.0	.55	12.4	.83	13.9	1.82
9	10.6	1.36	11.4	1.61	10.6	2.83	15.8	.95	11.3	.84	12.9	2.02
8	9.2	1.54	10.6	1.82	9.9	3.16	13.9	1.04	10.3	.86	11.9	1.90
7	7.9	1.72	9.8	2.05	9.2	3.52	12.2	.99	9.2	.89	10.9	1.51
6	6.5	1.92	9.0	2.28	8.4	3.51	10.5	1.00	8.2	[illegible]	9.9	1.38
5	5.2	2.08	8.2	2.56	7.7	3.42	8.8	1.05	7.1	1.06	9.0	1.64
4	3.8	1.71	7.3	2.76	7.0	3.38	[illegible]	1.12	6.1	1.19	8.0	2.13
3	2.5	1.46	6.5	2.87	6.3	3.17	5.4	1.24	5.0	1.29	7.0	2.73
2	1.1	1.06	5.7	2.75	5.6	2.83	3.6	1.34	4.0	1.45	6.0	3.16
1	.0	.78	4.9	2.69	4.9	2.50	1.9	1.20	2.9	1.55	5.0	3.29
0	.0	.04	4.1	2.35	4.1	2.14	.2	.64	1.9	1.37	4.0	2.87

ESTIMATES OF ERROR IN EQUATING THE TOTAL READING TESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, TOTAL READING TEST

PROCEDURE 3, LINEAR

	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING		CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING		ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING		STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING		SRA (71 ED.) BLUE FORM E TOTAL READING		SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
106					114.4	1.39						
105					113.4	1.33						
104					112.4	1.33						
103					111.4	[illegible]						
102					110.4	[illegible]						
101					109.4	1.27						
100					108.4	1.27						
99					107.5	1.28						
98					106.5	1.28					119.9	1.49
97					105.5	1.24					118.7	1.49
96					104.5	1.23					117.6	1.46
95					103.5	1.23					116.5	1.42
94					102.5	.21					115.4	1.40
93					101.5	1.18					114.2	[illegible]
92					100.6	1.21					113.1	1.34
91					99.6	1.21					112.0	1.34
90					98.6	1.17			113.8	1.19	110.8	1.32
89					97.6	1.17			112.7	1.18	109.7	1.29
88					96.6	1.17			111.5	1.13	108.6	1.27
87					95.6	1.17			110.4	1.12	107.4	1.24
86					94.6	1.16			109.3	1.15	106.3	1.25
85			107.4	1.44	93.6	1.15			108.2	1.14	105.2	1.24
84			106.2	1.43	92.7	1.17			107.0	1.09	104.0	1.23
83			105.0	1.41	91.7	1.18			105.9	1.10	102.9	1.21
82	113.6	.84	103.8	1.40	90.7	1.15			104.8	1.10	101.8	1.20
81	112.2	.82	102.6	1.42	89.7	1.17			103.7	1.10	100.6	1.17
80	110.9	.80	101.4	1.42	88.7	1.17			102.6	1.08	99.5	1.19
79	109.5	.75	100.2	1.40	87.7	1.17			101.4	1.06	98.4	1.17
78	108.2	.74	99.0	1.43	86.7	1.17			100.3	1.09	97.2	1.16
77	106.8	.73	97.8	1.41	85.7	1.16			99.2	1.10	96.1	1.15
76	105.5	.70	96.6	1.42	84.8	1.21			98.1	1.07	95.0	1.14
75	104.1	.67	95.4	1.43	83.8	1.20			96.9	1.07	93.8	1.15
74	102.7	.67	94.2	1.45	82.8	1.19			95.8	1.09	92.7	1.15
73	101.4	.67	93.0	1.46	81.8	1.21			94.7	1.09	91.6	1.14
72	100.0	.69	91.8	1.46	80.8	1.21			93.6	1.11	90.4	1.14
71	98.7	.66	90.6	1.49	79.8	1.24			92.4	1.08	89.3	1.13
70	97.3	.67	89.4	1.48	78.8	1.22			[illegible]	1.11	88.2	1.15
69	96.0	.67	88.2	1.50	77.9	1.24			90.2	1.13	87.1	1.16
68	94.6	.71	87.0	1.53	76.9	1.28			89.1	1.14	85.9	1.17
67	93.2	.73	85.8	1.55	75.9	1.28			87.9	1.13	84.8	1.17
66	91.9	.73	84.6	1.55	74.9	1.29			86.8	1.17	83.7	1.13

TABLE 2097. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE TOTAL READING TESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, TOTAL READING TEST

PROCEDURE 3, LINEAR

	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING		CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING		ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING		STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING		SRA (71 ED.) BLUE FORM E TOTAL READING		SAT (64 ED.) INTERMEDIATE 1 FORM W TOTAL READING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
65	90.5	.76	83.4	1.58	73.9	1.30			85.7	1.17	82.5	1.18
64	89.2	.80	82.2	1.58	72.9	1.30			84.6	1.19	81.4	1.22
63	87.8	.81	81.0	1.61	71.9	1.34			83.5	1.19	80.3	1.23
62	86.5	.82	79.8	1.67	70.9	1.33			82.3	1.22	79.1	1.22
61	85.1	.89	78.6	1.69	70.0	1.35			81.2	1.24	78.0	1.23
60	83.7	.94	77.4	1.71	69.0	1.38	112.3	1.03	80.1	1.27	76.9	1.26
59	82.4	.94	76.2	1.72	68.0	1.40	110.5	1.04	79.0	1.27	75.7	1.27
58	81.0	1.00	75.0	1.77	67.0	1.41	108.6	1.00	77.8	1.33	74.6	1.29
57	79.7	1.03	73.8	1.77	66.0	1.42	106.8	.98	76.7	1.33	73.5	1.31
56	78.3	1.09	72.6	1.83	65.0	1.43	105.0	.98	75.6	1.35	72.3	1.34
55	77.0	1.10	71.4	1.85	64.0	1.47	103.2	.97	74.5	1.38	71.2	1.34
54	75.6	1.15	70.2	1.87	63.0	1.45	101.3	.96	73.3	1.40	70.1	1.36
53	74.2	1.21	69.0	1.89	62.1	1.51	99.5	.94	72.2	1.42	68.9	1.40
52	72.9	1.27	67.8	1.94	61.1	1.52	97.7	.95	71.1	1.45	67.8	1.43
51	71.5	1.29	66.6	1.96	60.1	1.54	95.9	.98	70.0	1.45	66.7	1.44
50	70.2	1.32	65.4	2.01	59.1	1.57	94.1	.98	68.8	1.51	65.5	[illegible]
49	68.8	1.40	64.2	2.06	58.1	1.58	92.2	.99	67.7	1.53	64.4	1.48
48	67.5	1.42	63.0	2.08	57.1	1.60	90.4	1.00	66.6	1.55	63.3	1.52
47	66.1	1.46	61.8	2.11	56.1	1.63	88.6	1.02	65.5	1.59	62.1	1.55
46	64.7	1.55	60.6	2.14	55.2	1.64	85.8	1.04	64.4	1.61	61.0	1.55
45	63.4	1.58	59.4	2.18	54.2	1.67	[illegible]	1.06	[illegible]	1.64	59.9	1.59
44	62.0	1.61	58.2	2.19	53.2	1.71	83.1	1.10	62.1	1.68	58.8	1.62
43	60.7	1.67	57.0	2.26	52.2	1.74	81.3	1.12	61.0	1.68	57.6	1.63
42	59.3	1.72	55.8	2.28	51.2	1.73	79.5	1.16	59.9	1.74	56.5	1.67
41	58.0	1.76	54.6	2.32	50.2	1.75	77.6	1.17	58.7	1.76	55.4	1.72
40	56.6	1.82	53.4	2.35	49.2	1.79	75.8	1.22	57.6	1.78	54.2	1.74
39	55.2	1.88	52.2	2.39	48.2	1.80	74.0	1.26	56.5	1.81	53.1	1.74
38	53.9	1.91	51.0	2.43	47.3	1.85	72.2	1.30	55.4	1.85	52.0	1.79
37	52.5	1.98	49.8	2.48	46.3	1.85	70.3	1.36	54.2	1.89	50.8	1.83
36	51.2	2.00	48.6	2.52	45.3	1.88	68.5	1.38	53.1	1.92	49.7	1.86
35	49.8	2.06	47.4	2.56	44.3	1.93	66.7	1.43	52.0	1.94	48.6	1.87
34	48.5	2.12	46.2	2.59	43.3	1.92	64.9	1.45	50.9	1.99	47.4	1.91
33	47.1	2.16	45.0	2.62	42.3	1.96	63.1	1.51	49.7	2.01	46.3	1.94
32	45.7	2.22	43.8	2.68	41.3	2.00	61.2	1.57	48.6	2.04	45.2	1.98
31	44.4	2.28	42.6	2.72	40.3	2.00	59.4	1.61	47.5	2.08	44.0	1.99
30	43.0	2.33	41.4	2.75	39.4	2.04	57.6	1.67	46.4	2.10	42.9	2.05
29	41.7	2.34	40.2	2.79	38.4	2.06	55.8	1.69	[illegible]	2.14	41.8	2.08
28	40.3	2.42	39.0	2.83	37.4	2.08	53.9	1.78	[illegible]	2.18	40.6	2.09
27	39.0	2.47	37.8	2.85	36.4	2.12	52.1	1.80	43.0	2.21	39.5	2.14
26	37.6	2.53	36.6	2.91	35.4	2.13	50.3	1.87	[illegible]	2.24	38.4	2.17
25	36.2	2.59	35.4	2.99	34.4	2.16	48.5	1.92	40.8	2.27	37.2	2.21

TABLE 2097. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE TOTAL READING TESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, TOTAL READING TEST

PROCEDURE 3, LINEAR

	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING		CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING		ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING		STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING		SRA (71 ED.) BLUE FORM E TOTAL READING		SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
24	34.9	2.62	34.2	3.00	33.4	2.19	46.6	1.99	39.6	2.32	36.1	2.23
23	33.5	2.70	33.0	3.05	32.5	2.22	44.8	2.02	38.5	2.34	35.0	2.28
22	32.2	2.71	31.8	3.09	31.5	2.24	43.0	2.08	37.4	2.37	33.8	2.30
21	30.8	2.78	30.6	3.12	30.5	2.28	41.2	2.14	36.3	2.42	32.7	2.33
20	29.5	2.83	29.4	3.15	29.5	2.31	39.3	2.19	35.1	2.45	31.6	2.37
19	28.1	2.90	28.2	3.21	28.5	2.33	37.5	2.25	34.0	2.47	30.5	2.41
18	26.7	2.94	27.0	3.24	27.5	2.32	35.7	2.28	32.9	2.52	29.3	2.44
17	25.4	2.99	25.8	3.29	26.5	2.39	33.9	2.33	31.8	2.55	28.2	2.46
16	24.0	3.05	24.6	3.33	25.5	2.40	32.0	2.41	30.6	2.59	27.1	2.50
15	22.7	3.09	23.4	3.37	24.6	2.43	30.2	2.45	29.5	2.62	25.9	2.55
14	21.3	3.16	22.2	3.41	23.6	2.46	28.4	2.53	28.4	2.65	24.8	2.58
13	20.0	3.19	21.0	3.46	22.6	2.49	26.6	2.55	27.3	2.70	23.7	2.61
12	18.6	3.24	19.8	3.52	21.6	2.51	24.8	2.63	26.2	2.72	22.5	2.65
11	17.2	3.32	18.6	3.55	20.6	2.54	22.9	2.66	25.0	2.77	21.4	2.68
10	15.9	3.34	17.4	3.60	19.6	2.57	21.1	2.74	23.9	2.80	20.3	2.71
9	14.5	3.41	16.2	3.63	18.6	2.60	19.3	2.79	22.8	2.82	19.1	2.75
8	13.2	3.48	15.0	3.68	17.7	2.64	17.5	2.85	21.7	2.87	18.0	2.80
7	11.8	3.51	13.8	3.72	16.7	2.65	15.6	2.93	20.5	2.91	16.9	2.83
6	10.5	3.54	12.6	3.77	15.7	2.67	13.8	2.95	19.4	2.94	15.7	2.86
5	9.1	3.62	11.4	3.80	14.7	2.74	12.0	3.02	18.3	2.98	14.6	2.89
4	7.7	3.69	10.3	3.88	13.7	2.74	10.2	3.06	17.2	3.01	13.5	2.93
3	6.4	3.71	9.1	3.89	12.7	2.75	8.3	3.14	16.0	3.06	12.3	2.97
2	5.0	3.79	7.9	3.94	11.7	2.80	6.5	3.20	14.9	3.08	11.2	3.00
1	3.7	3.82	6.7	3.98	10.7	2.82	4.7	3.25	13.8	3.11	10.1	3.03
0	2.3	3.89	5.5	4.03	9.8	2.86	2.9	3.28	12.7	3.16	8.9	3.07

ESTIMATES OF ERROR IN EQUATING THE TOTAL READING TESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, TOTAL READING TEST

PROCEDURE 3, EQUIPERCENTILE

	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING		CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING		ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING		STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING		SRA (71 ED.) BLUE FORM E TOTAL READING		SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
106					95.4	.22						
105					95.4	.32						
104					95.3	.41						
103					94.9	.38						
102					94.5	.40						
101					94.2	.33						
100					93.8	.30						
99					93.4	.24						
98					93.0	.19					95.3	.32
97					92.6	.19					95.0	.32
96					92.2	.24					94.7	.36
95					91.8	.25					94.4	.39
94					91.3	.28					94.1	.32
93					90.9	.29					93.8	.27
92					90.4	.32					93.5	.21
91					90.0	.35					93.2	.21
90					89.5	.35			95.3	.36	92.9	.18
89					89.1	.33			94.8	.29	92.6	.25
88					88.6	.35			94.3	.22	92.1	.28
87					88.1	.37			93.8	.19	91.7	.30
86					87.7	.40			93.3	.14	91.3	.31
85			95.2	.34	87.2	.39			92.8	.14	91.0	.32
84			94.7	.38	86.8	.42			92.3	.15	90.6	.34
83			94.2	.29	86.4	.43			91.7	.20	90.3	.35
82	95.2	.33	93.7	.24	85.9	.42			91.2	.21	89.9	.36
81	94.6	.33	93.1	.20	85.5	.45			90.7	.24	89.6	.38
80	94.1	.24	92.6	.27	85.0	.45			90.2	.29	89.2	.37
79	93.5	.13	91.9	.33	84.5	.46			89.7	.28	88.7	.38
78	92.9	.10	91.2	.37	84.0	.51			89.3	.31	88.3	.38
77	92.4	.16	90.6	.39	83.5	.54			88.8	.31	87.8	.38
76	91.9	.21	90.0	.45	83.0	.60			88.3	.33	87.4	.39
75	91.3	.22	89.4	.46	82.4	.64			87.8	.36	87.0	.40
74	90.8	.25	88.7	.48	81.9	.70			87.4	.40	86.6	.42
73	90.4	.26	88.1	.51	81.3	.72			86.9	.44	86.2	.41
72	89.9	.29	87.4	.52	80.7	.80			86.4	.45	85.8	.44
71	89.4	.29	86.7	.55	80.1	.83			86.0	.49	85.3	.47
70	88.9	.30	86.0	.57	79.5	.90			85.5	.52	84.8	.47
69	88.3	.33	85.4	.62	78.9	.96			85.0	.56	84.4	.49
68	87.8	.32	84.7	.68	78.1	.99			84.6	.56	83.9	.52
67	87.3	.29	84.0	.75	77.4	1.05			84.1	.60	83.4	.54
66	86.7	.31	83.3	.84	76.7	1.10			83.6	.60	82.8	.61

ESTIMATES OF ERROR IN EQUATING THE TOTAL READING TESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, TOTAL READING TEST

PROCEDURE 3, EQUIPERCENTILE

	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING		CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING		ITBS (71 ED.) LEVEL 0 FORM 5 TOTAL READING		STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING		SRA (71 ED.) BLUE FORM E TOTAL READING		SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
65	86.2	.31	82.5	.89	76.0	1.18			83.1	.62	82.3	.64
64	85.7	.30	81.7	.98	75.4	1.26			82.6	.64	81.7	.72
63	85.1	.33	80.9	1.13	74.7	1.34			82.1	.65	81.2	.79
62	84.5	.35	80.0	1.23	74.0	1.39			81.6	.67	80.5	.83
61	83.9	.36	79.2	1.38	73.3	1.47			81.0	.70	79.9	.86
60	83.2	.44	78.3	1.47	72.6	1.55	95.2	.33	80.5	.75	79.2	.96
59	82.5	.47	77.4	1.62	71.8	1.54	94.5	.28	79.9	.81	78.4	1.04
58	81.7	.54	76.5	1.77	71.1	1.53	93.8	.18	79.3	.89	77.6	1.08
57	80.9	.61	75.5	1.90	70.3	1.60	93.1	.17	78.7	.96	76.8	1.15
56	80.1	.61	74.6	2.03	69.5	1.67	92.4	.23	78.1	1.06	76.0	1.26
55	79.2	.65	73.6	2.11	68.7	1.77	91.6	.32	77.4	1.13	75.1	1.32
54	78.2	.74	72.5	2.16	67.8	1.83	90.8	.34	76.7	1.21	74.2	1.38
53	77.1	.81	71.4	2.20	67.0	1.94	90.0	.37	76.0	1.30	73.4	1.46
52	76.1	.87	70.4	2.31	66.2	2.03	89.2	.39	75.3	1.36	72.5	1.52
51	75.0	.98	69.4	2.42	65.3	2.07	88.3	.40	74.7	1.45	71.6	1.59
50	73.9	1.08	68.4	2.55	64.4	2.09	87.5	.39	74.0	1.48	70.7	1.62
49	72.7	1.22	67.3	2.66	63.5	2.12	86.7	.45	[illegible]	1.56	69.7	1.71
48	71.6	1.31	66.2	2.72	62.5	2.08	85.9	.44	72.4	1.61	68.6	1.81
47	70.3	1.46	65.0	2.78	61.6	2.08	85.1	.44	[illegible]	1.64	67.5	1.88
46	69.0	1.58	63.8	2.84	60.7	2.08	84.3	.45	70.7	1.67	66.4	1.98
45	67.7	1.75	62.6	2.86	59.7	2.07	83.5	.50	69.8	1.73	65.2	2.06
44	66.2	1.90	61.4	2.86	58.8	2.09	82.5	.54	68.9	1.77	64.0	2.15
43	64.7	2.02	60.3	2.89	57.9	2.11	81.6	.61	67.9	1.82	62.8	2.19
42	63.1	2.15	59.1	2.90	56.8	2.12	80.5	.70	66.9	1.94	61.5	2.21
41	61.5	2.25	57.9	2.94	55.6	2.12	79.4	.80	65.8	1.99	60.3	2.23
40	60.0	2.41	56.7	3.00	54.5	2.17	78.3	.93	64.8	2.09	59.1	2.24
39	58.4	2.56	55.4	3.09	53.2	2.18	77.0	1.07	63.5	2.14	57.8	2.24
38	56.9	2.60	54.1	3.20	51.9	2.24	75.6	1.22	62.3	2.19	56.4	2.25
37	55.2	2.75	52.7	3.35	50.5	2.29	74.2	1.36	61.0	2.24	55.0	2.29
36	53.5	2.90	51.4	3.43	48.9	2.33	72.7	1.52	59.6	2.31	53.5	2.32
35	51.8	3.00	50.1	3.52	47.2	2.32	71.1	1.62	58.1	2.35	52.0	2.37
34	50.1	3.12	48.5	3.54	45.5	2.37	69.4	1.71	56.6	2.42	50.4	2.41
33	48.1	3.26	46.8	3.55	43.7	2.42	67.7	1.85	55.0	2.48	48.6	2.44
32	46.0	3.38	45.2	3.57	41.9	2.44	65.8	1.96	53.5	2.55	46.7	2.46
31	44.0	3.39	43.6	3.59	40.0	2.44	63.8	2.07	51.8	2.66	44.8	2.50
30	42.1	3.45	42.0	3.59	37.9	2.37	61.5	2.11	50.1	2.74	42.8	2.49
29	40.2	3.48	40.4	3.58	35.8	2.35	59.3	2.16	48.1	2.85	40.8	2.50
28	38.4	3.38	38.6	3.53	33.7	2.25	57.0	2.23	45.9	2.87	38.8	2.52
27	36.6	3.30	36.9	3.47	31.7	2.17	54.7	2.34	43.5	2.86	36.8	2.48
26	34.9	3.20	35.2	3.39	29.6	2.10	52.5	2.47	41.0	2.79	34.8	2.50
25	33.1	3.13	33.3	3.26	27.9	1.88	50.2	2.65	38.5	2.73	32.7	2.41

TABLE 2098. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE TOTAL READING TESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, TOTAL READING TEST

PROCEDURE 3, EQUIPERCENTILE

RAW SCORE	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING MAT EQUIV.	ERROR	CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING MAT EQUIV.	ERROR	ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING MAT EQUIV.	ERROR	STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING MAT EQUIV.	ERROR	SRA (71 ED.) BLUE FORM E TOTAL READING MAT EQUIV.	ERROR	SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING MAT EQUIV.	ERROR
24	31.4	3.02	31.5	3.11	25.1	1.68	47.5	2.77	36.0	2.69	30.6	2.30
23	29.7	2.86	29.6	2.93	24.4	1.47	44.7	2.84	33.5	2.58	28.9	2.17
22	28.2	2.63	28.0	2.68	22.9	1.36	42.[illegible]	2.79	31.6	2.48	27.3	2.08
21	26.7	2.41	26.4	2.46	21.5	1.20	39.7	2.71	28.9	2.35	25.8	1.98
20	25.2	2.19	24.8	2.28	20.2	1.04	37.2	2.64	27.0	2.19	24.2	1.83
19	23.8	1.97	23.2	2.14	19.0	.90	34.7	2.58	25.1	2.06	22.9	1.70
18	22.4	1.72	21.7	2.02	18.0	.75	32.1	2.49	23.4	1.85	21.6	1.59
17	21.0	1.42	20.3	1.89	17.0	.76	29.6	2.38	22.0	1.70	20.6	1.50
16	19.6	1.13	19.0	1.80	16.2	.85	27.5	2.14	20.8	1.54	19.5	1.39
15	18.3	.88	17.8	1.79	15.4	.90	25.4	1.96	19.6	1.35	18.8	1.31
14	16.9	.79	16.7	1.84	14.6	.84	23.6	1.67	18.4	1.19	18.0	1.30
13	15.2	.85	15.6	1.80	13.9	.77	21.9	1.47	17.2	1.04	17.2	1.35
12	14.1	.75	14.5	1.78	13.1	.71	20.3	1.35	16.0	1.04	16.4	1.36
11	13.1	.77	13.6	1.80	12.4	.64	18.8	1.15	14.8	1.06	15.6	1.37
10	12.1	.94	12.6	1.81	11.6	.61	17.3	1.03	13.9	.96	14.8	1.37
9	11.1	1.19	11.7	1.83	10.9	.56	15.5	1.02	13.0	.89	13.7	1.45
8	10.1	1.48	10.7	1.89	10.1	.56	14.0	.95	12.1	.81	12.6	1.39
7	9.0	1.76	9.7	1.94	9.4	.53	12.7	.79	11.2	.78	11.5	1.24
6	8.0	2.03	8.8	2.05	8.6	[illegible]	11.5	.66	10.3	.73	10.5	1.08
5	7.0	2.38	7.8	2.11	7.9	.55	10.2	.59	9.4	.70	9.4	1.01
4	6.0	2.70	6.9	2.25	7.1	.63	8.9	.58	8.5	.65	8.3	.91
3	5.0	2.71	5.9	2.27	6.4	.65	7.7	.68	7.6	.62	7.2	.88
2	4.0	2.65	5.0	1.97	5.6	.75	6.4	.79	6.7	.63	6.1	.85
1	3.0	2.13	4.0	1.65	4.9	.79	5.1	.95	5.8	.63	5.0	.86
0	2.0	1.56	3.1	1.39	4.1	.91	3.9	1.16	4.9	.64	4.0	.86

ESTIMATES OF ERROR IN EQUATING THE TOTAL READING TESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, TOTAL READING TEST

AVERAGE OF PROCEDURES 1 AND 2, LINEAR

	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING		CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING		ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING		STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING		SRA (71 ED.) BLUE FORM E TOTAL READING		SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
106					115.8	1.21						
105					114.8	1.21						
104					113.8	1.16						
103					112.8	1.14						
102					111.8	1.12						
101					110.8	1.09						
100					109.8	1.05						
99					108.8	1.05						
98					107.8	.99					120.5	1.40
97					106.8	.95					119.3	1.36
96					105.8	.93					118.2	1.37
95					104.9	.93					[illegible]	1.31
94					103.9	.88					115.9	1.26
93					102.9	.84					114.7	1.22
92					101.9	.85					113.6	1.20
91					100.9	.79					112.5	1.17
90					99.9	.77			[illegible]	1.03	111.3	1.12
89					98.9	.76			[illegible]	1.00	110.2	1.07
88					97.9	.71			[illegible]	.97	109.0	1.05
87					96.9	.68			110.7	.94	107.9	1.03
86					96.0	.69			[illegible]	.89	106.7	.98
85			107.4	.90	95.0	.65			108.4	.88	105.5	[illegible]
84			106.1	.84	94.0	.63			[illegible]	.84	104.4	.91
83			104.9	.79	93.0	.62			106.1	.83	103.3	.88
82	116.1	.98	103.7	.78	92.0	.58			104.9	.79	102.1	.85
81	114.7	.93	102.5	.71	91.0	.54			103.8	.77	101.0	.82
80	113.3	.88	101.3	.70	90.0	.51			102.6	.72	99.8	.75
79	112.0	.87	100.1	.68	89.0	.49			101.4	.66	98.7	.74
78	110.6	.82	98.9	.64	88.0	.49			100.3	.67	97.5	.69
77	109.2	.79	97.7	.61	87.0	.48			99.1	.62	96.4	.67
76	107.9	.77	96.5	.58	86.1	.48			98.0	.61	95.2	.65
75	106.5	.72	95.2	.52	85.1	.43			96.8	.57	94.1	.61
74	105.1	.69	94.0	.50	84.1	.41			95.6	.53	92.9	.56
73	103.8	.67	92.8	.45	83.1	.42			94.5	.51	91.8	.55
72	102.4	.62	91.6	.45	82.1	.40			93.3	.47	90.6	.51
71	101.0	.59	90.4	.38	81.1	.38			92.2	.44	89.5	.48
70	99.7	.56	89.2	.36	80.1	.38			91.0	.41	88.4	.44
69	98.3	.54	88.0	.32	79.1	.37			89.9	.42	87.2	.44
68	97.0	.51	86.8	.31	78.1	.36			88.7	.37	86.1	.41
67	95.6	.48	85.6	.27	77.1	.38			87.5	.34	84.9	.36
66	94.2	.43	84.4	.27	76.1	.38			86.4	.35	83.7	.36

ESTIMATES OF ERROR IN EQUATING THE TOTAL READING TESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, TOTAL READING TEST

AVERAGE OF PROCEDURES 1 AND 2, LINEAR

	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING		CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING		ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING		STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING		SRA (71 ED.) BLUE FORM E TOTAL READING		SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
65	92.8	.42	83.2	.24	75.1	.37			[illegible]5.2	.31	82.6	.35
64	91.5	.38	82.0	.23	74.2	.41			84.1	.30	81.4	.31
63	90.1	.36	80.8	.22	73.2	.41			82.9	.27	80.3	.32
62	88.7	.33	79.6	.21	72.2	.41			81.8	.29	79.1	.32
61	87.4	.30	78.3	.15	71.2	.45			80.6	.26	78.0	.29
60	86.0	.29	77.1	.15	70.2	.46	114.5	.90	79.4	.25	76.9	.32
59	84.6	.29	75.9	.18	69.2	.46	112.7	.86	78.3	.27	75.7	.31
58	83.3	.26	74.7	.18	68.2	.51	110.9	.84	77.1	.27	74.6	.31
57	81.9	.23	73.5	.19	67.2	.50	109.0	.74	76.0	.29	73.4	.34
56	80.5	.25	72.3	.22	66.2	.52	107.2	.70	74.8	.29	72.3	.34
55	79.2	.24	71.1	.26	65.2	.56	105.4	.69	73.7	.30	71.1	.37
54	77.8	.26	69.9	.28	64.2	.58	103.6	.65	72.5	.33	70.0	.40
53	76.4	.26	68.7	.31	63.2	.59	101.8	.63	71.4	.36	68.8	.41
52	75.1	.26	67.5	.35	62.2	.60	99.9	.52	70.2	.39	67.7	.43
51	73.7	.28	66.3	.38	61.2	.66	98.1	.51	69.1	.41	66.5	.48
50	72.3	.32	65.0	.39	60.2	.68	96.2	.44	67.9	.43	65.4	.51
49	71.0	.35	63.8	.44	59.2	.70	94.4	.41	66.8	.47	64.2	.54
48	69.6	.37	62.6	.46	58.3	.74	92.6	.36	65[illegible]	.49	63.1	.54
47	68.2	.39	61.4	.50	57.3	.75	90.8	.33	[illegible].5	.54	62.0	.57
46	66.9	.43	60.2	.55	56.3	.75	89.0	.29	63.3	.54	60.8	.61
45	65.5	.46	59.0	.58	55.3	.82	87.1	.23	62.1	.57	59.6	.65
44	64.1	.50	57.8	.61	54.3	.83	85.3	.18	61.0	.62	58.5	.67
43	62.8	.49	56.6	.65	53.3	.87	83.5	.17	59.3	.64	57.3	.72
42	61.4	.54	55.3	.69	52.3	.91	81.6	.08	58.7	.68	56.2	.74
41	60.0	.59	54.1	.72	51.3	.93	79.8	.06	57.5	.71	55.0	.80
40	58.7	.61	52.9	.75	50.3	.93	78.0	.06	56.4	.73	53.9	.82
39	57.3	.66	51.7	.77	49.3	.97	76.2	.07	55.2	.76	52.8	.85
38	55.9	.70	50.5	.82	48.3	1.01	74.4	.10	54.0	.80	51.6	.89
37	54.6	.70	49.3	.83	47.4	1.03	72.5	.15	52.9	.83	50.5	.92
36	53.2	.73	48.1	.89	46.4	1.06	70.7	.18	51.7	.87	49.3	.98
35	51.8	.78	46.9	.93	45.4	1.09	68.8	.26	50.6	.90	48.2	1.01
34	50.4	.83	45.7	.94	44.4	1.11	67.0	.29	49.4	.94	47.0	1.05
33	49.1	.86	44.5	.97	43.4	1.13	65.2	.32	48.2	.97	45.9	1.08
32	47.7	.88	43.3	1.01	42.4	1.19	63.4	.34	47.1	.99	44.7	1.10
31	46.3	.95	42.1	1.04	41.4	1.21	61.6	.40	45.9	1.03	43.6	1.12
30	45.0	.97	40.9	1.09	40.4	1.24	59.7	.49	44.8	1.06	42.4	1.16
29	43.6	1.01	39.7	1.14	39.4	1.27	57.9	.50	43.6	1.09	41.3	1.20
28	42.2	1.05	38.5	1.16	38.5	1.27	56.1	.54	42.5	1.12	40.1	1.24
27	40.9	1.04	37.3	1.19	37.5	1.31	54.2	.60	41.3	1.15	39.0	1.28
26	39.5	1.10	36.1	1.21	36.5	1.36	52.4	.65	40.1	1.20	37.9	1.32
25	38.1	1.14	34.8	1.27	35.5	1.38	50.6	.66	39.0	1.23	36.7	1.34

ESTIMATES OF ERROR IN EQUATING THE TOTAL READING TESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, TOTAL READING TEST

AVERAGE OF PROCEDURES 1 AND 2, LINEAR

	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING		CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING		ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING		STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING		SRA (71 ED.) BLUE FORM E TOTAL READING		SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
24	36.8	1.17	33.6	1.29	34.5	1.41	48.6	.70	37.8	1.27	35.5	1.38
23	35.4	1.20	32.4	1.33	33.5	1.44	[illegible]	.77	[illegible]	1.28	34.4	1.42
22	34.0	1.22	31.2	1.37	32.5	1.48	45.1	.79	35.5	1.34	33.2	1.47
21	32.7	1.26	30.0	1.39	31.5	1.52	43.3	.84	34.4	1.36	32.1	1.49
20	31.3	1.31	28.8	1.43	30.5	1.54	41.4	.93	33.2	1.41	30.9	1.54
19	29.9	1.35	27.6	1.49	29.5	1.56	39.6	.96	32.1	1.43	29.8	1.57
18	28.6	1.38	26.4	1.51	28.5	1.60	37.8	1.00	30.9	1.46	28.6	1.60
17	27.2	1.40	25.1	1.54	[illegible]	1.62	36.0	1.04	29.8	1.49	27.5	1.63
16	25.9	1.43	23.9	1.57	26.6	1.64	34.1	1.12	28.6	1.52	26.4	1.66
15	24.5	1.47	22.7	1.60	25.6	1.69	32.3	1.13	27.5	1.56	25.2	1.70
14	23.1	1.50	21.5	1.67	24.6	1.70	30.5	1.17	26.3	1.60	24.1	1.77
13	21.8	1.54	20.3	1.69	23.6	1.73	28.7	1.20	25.1	1.65	22.9	1.81
12	20.4	1.57	19.1	1.71	22.6	1.77	26.8	1.28	24.0	1.66	[illegible]	1.83
11	19.0	1.60	17.9	1.76	21.6	1.78	25.0	1.33	22.8	1.69	[illegible]	1.87
10	17.7	1.63	16.7	1.76	20.6	1.83	23.2	1.36	21.7	1.71	19.4	1.91
9	16.3	1.68	15.5	1.82	19.6	1.87	21.3	1.43	20.5	1.77	18.3	1.91
8	14.9	1.73	14.3	1.85	18.6	1.91	19.5	1.48	19.4	1.80	17.2	1.94
7	13.6	1.77	13.1	1.90	17.6	1.92	17.7	1.51	[illegible]	1.83	16.0	2.00
6	12.2	1.77	11.8	1.94	16.6	1.96	15.9	1.54	17.1	1.87	14.9	2.03
5	10.8	1.84	10.6	1.96	15.6	1.99	14.0	1.60	15.9	1.88	13.7	2.10
4	9.5	1.87	9.4	[illegible]	14.6	2.00	12.2	1.63	14.7	1.93	12.6	2.12
3	8.1	1.90	8.2	2.06	13.6	2.04	10.4	1.67	13.6	1.96	11.4	2.16
2	6.7	1.94	7.0	2.08	12.6	2.09	8.5	1.74	12.4	2.01	10.3	2.18
1	5.4	1.96	5.8	2.10	11.7	2.10	6.7	1.79	11.3	2.03	9.1	2.23
0	4.0	2.01	4.6	2.15	10.7	2.11	4.9	1.82	10.1	2.08	8.0	2.28

ESTIMATES OF ERROR IN EQUATING THE TOTAL READING TESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, TOTAL READING TEST

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE

	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING		CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING		ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING		STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING		SRA (71 ED.) BLUE FORM E TOTAL READING		SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
106					95.4	.11						
105					95.2	.19						
104					95.1	.23						
103					94.9	.25						
102					94.7	.25						
101					94.3	.21						
100					93.9	.21						
99					93.5	.22						
98					93.0	.24					95.4	.04
97					92.6	.22					95.1	.19
96					92.2	.21					94.8	.35
95					91.8	.20					94.[illegible]	.37
94					91.4	.22					94.1	.43
93					91.0	.22					93.8	.39
92					90.5	.25					93.5	.31
91					90.1	.22					93.2	.22
90					89.7	.23			[illegible]	.18	92.9	.17
89					89.2	.27			[illegible]	.29	92.5	.19
88					88.8	.22			[illegible]	.32	92.1	.17
87					88.4	.22			93.9	.30	91.7	.22
86					87.9	.21			93.4	.25	91.4	.21
85			95.3	.12	87.5	.22			92.9	.22	91.0	.26
84			95.0	.20	87.1	.19			92.[illegible]	.25	90.7	.26
83			94.4	.17	86.7	.17			91.8	.22	90.3	.23
82	95.3	.13	93.8	.15	86.2	.18			91.2	.16	90.0	.23
81	95.0	.25	93.2	.17	85.8	.20			90.7	.13	89.6	.25
80	94.4	.27	92.6	.21	85.4	.16			90.2	.13	89.1	.25
79	93.8	.24	92.0	.19	84.9	.17			89.7	.13	88.7	.23
78	93.2	.22	91.3	.16	84.5	.17			89.2	.10	88.3	.21
77	92.6	.17	90.6	.15	84.0	.16			88.9	.15	87.8	.19
76	92.1	.15	90.0	.18	83.5	.21			88.3	.15	87.4	.19
75	91.6	.14	89.4	.15	83.0	.23			87.8	.15	87.0	.18
74	91.2	.17	88.7	.12	82.5	.22			87.3	.15	86.6	.16
73	90.7	.20	88.0	.12	82.0	.24			86.8	.13	86.1	.19
72	90.3	.19	87.4	.12	81.4	.24			86.3	.17	85.7	.20
71	89.8	.22	86.7	.12	80.8	.26			85.8	.17	85.3	.17
70	89.4	.21	86.1	.14	80.2	.26			85.3	.16	84.8	.17
69	88.9	.19	85.3	.14	79.5	.27			84.8	.20	84.3	.18
68	88.4	.20	84.6	.15	79.0	.28			84.3	.20	83.8	.20
67	87.9	.19	83.9	.18	78.4	.31			83.8	.22	83.3	.21
66	87.4	.18	83.2	.25	77.7	.30			83.3	.23	82.8	.21

ESTIMATES OF ERROR IN EQUATING THE TOTAL READING TESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, TOTAL READING TEST

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE

	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING		CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING		ITBS (71 ED.) LEVEL 0 FORM 5 TOTAL READING		STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING		SRA (71 ED.) BLUE FORM E TOTAL READING		SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
65	86.9	.16	82.3	.22	77.0	.30			[illegible]	.22	82.3	.22
64	86.4	.14	81.5	.23	76.4	.29			82.3	.25	81.7	.24
63	85.9	.16	80.6	.26	75.8	.30			81.7	.22	81.1	.24
62	85.3	.16	79.8	.27	75.1	.33			81.2	.26	80.5	.24
61	84.7	.15	79.0	.29	74.4	.34			80.6	.24	79.8	.25
60	84.1	.15	78.1	.29	73.8	.38	95.2	.15	80.0	.25	79.1	.25
59	83.5	.15	77.2	.30	73.1	.39	94.6	.20	79.4	.24	78.4	.27
58	82.8	.19	76.2	.33	72.4	.41	93.9	.18	78.7	.23	77.6	.28
57	82.1	.18	75.3	.36	71.7	.41	93.3	.16	78.1	.26	76.8	.30
56	81.4	.23	74.3	.41	71.0	.44	92.7	.21	77.4	.25	76.0	.35
55	80.5	.23	73.4	.42	70.3	.48	92.0	.18	76.7	.23	75.1	.41
54	79.7	.23	72.3	.40	69.6	.50	91.2	.19	76.0	.27	[illegible]	.45
53	78.8	.29	71.3	.44	68.8	.51	90.4	.22	75.3	.28	73.4	.47
52	77.9	.27	70.3	.50	68.0	.55	89.7	.21	74.5	.32	72.5	.45
51	76.9	.28	69.3	.51	67.2	.56	88.9	.17	73.7	.34	71.6	.47
50	75.9	.32	68.2	.47	66.4	.58	88.2	.16	72.9	.41	70.7	.50
49	74.9	.35	67.2	.49	65.5	.60	87.4	.11	[illegible]	.43	69.8	.53
48	73.8	.39	66.1	.50	64.6	56	86.7	.09	[illegible]	.43	68.8	.54
47	72.7	.43	64.9	.50	63.7	.56	85.9	.05	[illegible]	.44	67.8	.54
46	71.5	.43	63.6	.45	62.7	.55	85.1	.07	[illegible]	.43	66.6	.56
45	70.3	.47	62.3	.40	61.7	.54	84.4	.05	[illegible]	.39	65.4	.56
44	69.1	.46	61.1	.40	60.8	.51	83.6	.07	67.6	.34	64.2	[illegible]
43	67.7	.47	59.8	.36	59.8	.46	82.7	.09	66.5	.37	62.9	.63
42	66.3	.47	58.6	.36	58.8	.41	81.8	.14	65.4	.40	61.6	.60
41	64.8	.48	57.4	.36	57.8	.39	80.8	.14	64.3	.43	60.3	.58
40	63.3	.45	56.2	.35	56.7	.37	79.7	.13	63.1	.42	59.1	.59
39	61.7	.45	54.9	.36	55.5	.47	78.6	.21	61.8	.36	57.8	.63
38	60.2	.44	53.6	.46	54.1	.52	77.4	.23	60.6	.37	56.4	.67
37	58.6	.48	52.2	.52	52.6	.57	76.0	.27	59.3	.41	55.0	.69
36	56.9	.55	50.8	.54	51.1	.64	74.6	.28	57.9	.47	53.5	.70
35	55.1	.71	49.3	.57	49.5	.73	73.2	.33	56.3	.55	51.9	.75
34	53.4	.76	47.9	.62	47.8	.85	71.8	.39	54.8	.64	50.2	.74
33	51.5	.84	46.3	.62	46.0	.99	70.2	.40	53.2	.69	48.4	.73
32	49.4	.95	44.7	.62	44.0	1.10	68.6	.41	51.6	.75	46.6	.80
31	47.4	.98	43.0	.69	41.8	.21	66.6	.36	49.9	.79	44.7	.89
30	45.3	1.10	41.2	.86	39.6	1.29	64.5	.32	48.1	.84	42.7	1.05
29	43.2	1.24	39.5	1.03	37.4	1.35	62.4	.30	46.1	.88	40.7	1.18
28	41.2	1.35	37.7	1.15	35.1	1.38	60.2	.25	43.8	.94	38.6	1.32
27	39.2	1.42	36.0	1.24	32.8	1.37	58.1	.35	41.4	.98	36.4	1.45
26	37.3	1.42	34.2	1.34	30.4	1.27	55.8	.47	39.0	1.06	34.4	1.53
25	35.3	1.47	32.4	1.28	28.4	1.15	53.5	.55	36.5	1.13	32.2	1.51

TABLE 2100. ANCHOR TEST EQUATING STUDY: GRADE 4

ESTIMATES OF ERROR IN EQUATING THE TOTAL READING TESTS TO THE MAT (70 ED.) ELEMENTARY , FORM F, TOTAL READING TEST

AVERAGE OF PROCEDURES 1 AND 2, EQUIPERCENTILE

	CAT (70 ED.) LEVEL 3 FORM A TOTAL READING		CTBS (68 ED.) LEVEL 2 FORM Q TOTAL READING		ITBS (71 ED.) LEVEL 10 FORM 5 TOTAL READING		STEP-II (69 ED.) LEVEL 4 FORM A TOTAL READING		SRA (71 ED.) BLUE FORM E TOTAL READING		SAT (64 ED.) INTERMEDIATE I FORM W TOTAL READING	
RAW SCORE	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR	MAT EQUIV.	ERROR
24	33.4	1.43	30.7	1.23	26.6	1.00	[illegible]	.63	[illegible]	1.19	30.0	1.53
23	31.4	1.35	28.9	1.16	24.8	.90	48.4	.62	31.8	1.18	28.4	[illegible]
22	29.5	1.25	27.4	1.01	23.1	.90	45.5	.63	29.6	1.18	26.8	1.39
21	27.9	1.17	25.8	.92	21.7	.97	42.6	.68	27.7	1.14	25.2	1.40
20	26.3	1.04	24.2	.84	20.4	.92	39.9	.75	25.8	1.08	23.7	1.35
19	24.7	.95	22.5	.89	19.2	.82	37.1	.81	23.9	1.07	22.2	1.39
18	23.0	.99	21.0	.93	18.1	.85	34.4	.95	22.2	1.16	20.9	1.42
17	21.4	.95	19.6	.89	17.0	.91	31.7	.98	21.0	1.12	19.8	1.33
16	20.1	.76	18.4	.83	16.1	.99	29.0	1.03	19.8	1.06	18.8	1.27
15	18.8	.68	17.1	.90	15.2	1.10	26.9	.96	18.7	.94	[illegible]	1.18
14	17.5	.68	15.9	.97	14.5	1.20	24.7	.94	17.5	.85	17.2	1.23
13	15.8	.77	14.7	1.11	13.8	1.26	22.7	.96	16.2	.89	16.4	1.31
12	14.3	.83	13.9	1.14	13.0	1.40	21.0	1.00	15.1	.85	15.6	1.36
11	13.3	.92	13.1	1.28	12.3	1.53	19.5	.89	14.0	.82	14.8	1.48
10	12.2	1.15	12.4	1.50	11.6	1.71	17.9	.84	13.1	.73	13.9	1.54
9	11.1	1.41	11.6	1.72	10.9	1.95	16.1	.97	12.2	.65	13.0	1.59
8	10.1	1.76	10.9	2.00	10.2	[illegible]	14.2	.98	[illegible]	.58	12.1	1.50
7	9.0	2.07	10.1	2.25	9.5	2.48	12.8	.82	10.5	.55	11.2	1.36
6	7.9	2.39	9.4	2.61	8.7	2.56	11.3	.78	9.6	.58	10.3	1.24
5	6.9	2.74	8.6	2.87	8.0	2.65	9.8	.80	[illegible]	.59	9.5	1.35
4	5.8	2.83	7.8	3.08	7.3	2.80	8.4	.85	7.9	.75	8.6	1.49
3	4.7	2.61	7.1	3.23	6.6	2.84	6.9	.95	[illegible]	.85	7.7	[illegible]
2	3.6	2.15	6.3	3.19	5.9	2.84	5.4	1.04	6.1	.94	6.9	1.99
1	2.7	1.83	5.5	3.03	5.2	2.87	3.9	1.06	5.2	1.08	6.0	[illegible]
0	2.3	1.77	4.8	2.78	4.4	2.70	2.5	.83	4.4	1.12	5.1	1.95

List of Tables of Correlations

Grade 4

	Table Numbers
Reading Vocabulary Subtests	
Observed Correlations	655
Averaged Correlations	656
Correlations Corrected for Attenuation	657
Averaged Correlations Corrected for Attenuation	658
Reading Comprehension Subtests	
Observed Correlations	659
Averaged Correlations	660
Correlations Corrected for Attenuation	661
Averaged Correlations Corrected for Attenuation	662
Total Reading Tests	
Observed Correlations	663
Averaged Correlations	664
Correlations Corrected for Attenuation	665
Averaged Correlations Corrected for Attenuation	666

ANCHOR TEST STUDY

Table 655: Observed Correlations for Reading Vocabulary Subtests at Grade 4

Test Administered Second (columns); Test Administered First (rows)

Test Administered First	CAT	CTBS	ITBS	MAT	STEP II	SRA	SAT
CAT	.8732 / .8813	.8287	.8292	.8414	.7847	.8556	.8718
CTBS	.8488	.8808 / .8638	.8100	.8852	.8429	.8457	.8516
ITBS	.8545	.8579	.8686 / .8730	.8272	.8221	.8889	.8453
MAT	.8103	.8672	.8110	.8845 / .8760	.8085	.8084	.8233
STEP II	.8434	.8027	.8411	.8212	.7997 / .7968	.8147	.7966
SRA	.8790	.8824	.8940	.8320	.8709	.8901 / .8676	.8739
SAT	.8238	.8509	.8378	.8265	.8218	.8605	.8628 / .7751

Table 656: Observed Correlations for Reading Vocabulary Subtests at Grade 4 Averaged* over Orders of Administration

Test Administered First	Test Administered Second: CAT	CTBS	ITBS	MAT	STEP II	SRA	SAT
CAT	0.8773	0.8390	0.8423	0.8265	0.8161	0.8678	0.8495
CTBS		0.8726	0.8355	0.8765	0.8238	0.8652	0.8513
ITBS			0.8734	0.8193	0.8319	0.8915	0.8416
MAT				0.8804	0.8149	0.8206	0.8249
STEP II					0.7983	0.8451	0.8095
SRA						0.8793	0.8674
SAT							0.8238

* Using Fisher's z transformation

ANCHOR TEST STUDY

Table 657: Correlations for Reading Vocabulary Subtests at Grade 4 Corrected for Attenuation

Test Administered First	Test Administered Second: CAT	CTBS	ITBS	MAT	STEP II	SRA	SAT
CAT		0.9471	0.9473	0.9574	0.9376	0.9741	1.0000
CTBS	0.9702		0.9278	1.0000	1.0000	0.9655	1.0000
ITBS	0.9762	0.9827		0.9434	0.9846	1.0000	0.9965
MAT	0.9220	0.9895	0.9249		0.9644	0.9188	0.9667
STEP II	1.0000	0.9618	1.0000	0.9795		0.9724	0.9823
SRA	1.0000	1.0000	1.0000	0.9456	1.0000		1.0000
SAT	0.9690	1.0000	0.9877	0.9705	1.0000	1.0000	

Table 658: Averaged Correlations for Reading Vocabulary Subtests at Grade 4 Corrected for Attenuation

Test Administered First	Test Administered Second: CAT	CTBS	ITBS	MAT	STEP II	SRA	SAT
CAT		0.9590	0.9622	0.9404	0.9752	0.9880	0.9993
CTBS			0.9571	1.0000	0.9871	0.9877	1.0000
ITBS				0.9343	0.9963	1.0000	0.9921
MAT					0.9721	0.9326	0.9686
STEP II						1.0000	0.9983
SRA							1.0000
SAT							

ANCHOR TEST STUDY

Table 659: Observed Correlations for Reading Comprehension Subtests at Grade 4

Test Administered Second (columns); Test Administered First (rows)

Test Administered First	CAT	CTBS	ITBS	MAT	STEP II	SRA	SAT
CAT	.8294 / .8337	.7861	.7954	.8191	.7455	.7911	.8367
CTBS	.7836	.8745 / .8348	.8541	.8751	.7983	.8233	.8328
ITBS	.8085	.8270	.8729 / .8828	.8435	.7859	.8600	.8027
MAT	.8160	.8488	.8474	.8628 / .8592	.7591	.8144	.8199
STEP II	.7772	.7802	.7674	.7558	.7926 / .8153	.8043	.7933
SRA	.7855	.8001	.8583	.8180	.8398	.8490 / .8376	.8176
SAT	.8037	.8064	.8406	.8455	.8062	.8093	.8443 / .8422

Table 660: Observed Correlations for Reading Comprehension Subtests at Grade 4 Averaged* over Orders of Administration

Test Administered Second

Test Administered First	CAT	CTBS	ITBS	MAT	STEP II	SRA	SAT
CAT	0.8316	0.7849	0.8040	0.8175	0.7618	0.7883	0.8209
CTBS		0.8559	0.8411	0.8625	0.7894	0.8120	0.8200
ITBS			0.8779	0.8455	0.7768	0.8591	0.8226
MAT				0.8610	0.7574	0.8162	0.8332
STEP II					0.8042	0.8228	0.7998
SRA						0.8434	0.8135
SAT							0.8433

* Using Fisher's z transformation

Table 661: Correlations for Reading Comprehension Subtests

at Grade 4 Corrected for Attenuation

Test Administered First	Test Administered Second: CAT	CTBS	ITBS	MAT	STEP II	SRA	SAT
CAT		0.9317	0.9356	0.9680	0.9116	0.9446	0.9992
CTBS	0.9289		0.9853	1.0000	0.9621	0.9690	0.9803
ITBS	0.9462	0.9540		0.9702	0.9352	0.9995	0.9330
MAT	0.9643	0.9887	0.9747		0.9122	0.9557	0.9622
STEP II	0.9504	0.9404	0.9132	0.9082		0.9766	0.9633
SRA	0.9380	0.9417	0.9974	0.9599	1.0000		0.9694
SAT	0.9597	0.9492	0.9770	0.9923	0.9789	0.9597	

Table 662: Averaged Correlations for Reading Comprehension Subtests at Grade 4 Corrected for Attenuation

Test Administered First	Test Administered Second: CAT	CTBS	ITBS	MAT	STEP II	SRA	SAT
CAT		0.9303	0.9409	0.9661	0.9315	0.9413	0.9802
CTBS			0.9703	1.0000	0.9515	0.9557	0.9653
ITBS				0.9724	0.9244	0.9984	0.9560
MAT					0.9102	0.9578	0.9778
STEP II						0.9991	0.9712
SRA							0.9646
SAT							

ANCHOR TEST STUDY

Table 663: Observed Correlations for Total Reading Tests at Grade 4

Test Administered Second (columns); Test Administered First (rows)

Test Administered First	CAT	CTBS	ITBS	MAT	STEP II	SRA	SAT
CAT	.9092 / .9131	.8751	.8757	.8949	.8648	.8913	.9154
CTBS	.8899	.9256 / .9155	.8986	.9312	.8985	.8956	.8950
ITBS	.8964	.8932	.9223 / .9276	.8872	.8817	.9307	.8837
MAT	.8774	.9129	.8737	.9225 / .9190	.8555	.8595	.8702
STEP II	.8945	.8753	.8876	.8575	.8830 / .8891	.8896	.8861
SRA	.9013	.9040	.9287	.8790	.9192	.9197 / .9091	.9066
SAT	.8917	.8865	.8909	.8920	.8959	.8977	.9040 / .8687

Table 664: Observed Correlations for Total Reading Tests at Grade 4 Averaged* over Orders of Administration

Test Administered First	Test Administered Second: CAT	CTBS	ITBS	MAT	STEP II	SRA	SAT
CAT	0.9112	0.8827	0.8865	0.8865	0.8806	0.8964	0.9042
CTBS		0.9207	0.8960	0.9225	0.8875	0.8999	0.8908
ITBS			0.9250	0.8807	0.8847	0.9297	0.8873
MAT				0.9208	0.8565	0.8695	0.8816
STEP II					0.8861	0.9055	0.8911
SRA						0.9145	0.9022
SAT							0.8876

* Using Fisher's z transformation

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Table 665: Correlations for Total Reading Tests at Grade 4 Corrected for Attenuation

Test Administered Second (columns); Test Administered First (rows)

	CAT	CTBS	ITBS	MAT	STEP II	SRA	SAT
CAT		0.9554	0.9538	0.9770	0.9625	0.9764	1.0000
CTBS	0.9716		0.9737	1.0000	0.9948	0.9760	0.9901
ITBS	0.9764	0.9679		0.9614	0.9739	1.0000	0.9752
MAT	0.9579	0.9915	0.9467		0.9471	0.9366	0.9625
STEP II	0.9955	0.9691	0.9804	0.9494		0.9883	0.9991
SRA	0.9874	0.9852	1.0000	0.9578	1.0000		1.0000
SAT	0.9915	0.9806	0.9832	0.9867	1.0000	0.9963	

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Table 666: Averaged Correlations for Total Reading Tests at Grade 4 Corrected for Attenuation

Test Administered Second

Test Administered First	CAT	CTBS	ITBS	MAT	STEP II	SRA	SAT
CAT		0.9637	0.9656	0.9678	0.9800	0.9820	1.0000
CTBS			0.9709	1.0000	0.9826	0.9807	0.9854
ITBS				0.9542	0.9772	1.0000	0.9793
MAT					0.9482	0.9476	0.9751
STEP II						1.0000	1.0000
SRA							1.0000
SAT							